

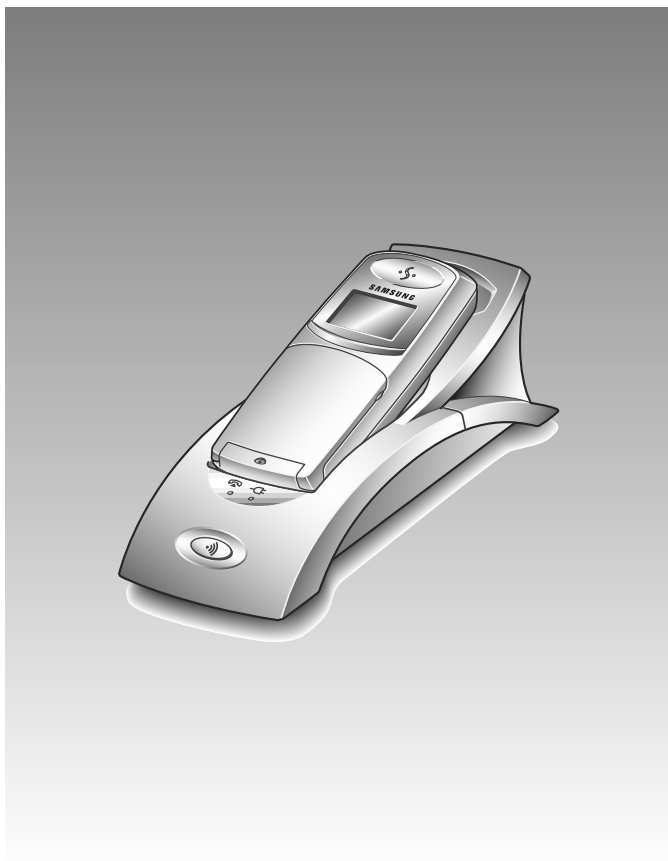


# Cordless Telephone

SP-R6100

# ***SERVICE*** *Manual*

## Cordless Telephone



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## 8. Usage of Jig Program



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# 1. Product Specification

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Item	Description
Standard	DECT / GAP
Frequency Range	1.88~1.90 GHz
Channels	120 Duplex Channels
Carrier Power	≤ 250 mW (24dBm)
Modulation	GFSK
Frequency Stability	≤ ± 50kHz
Operation Time	Ni-MH:Standby Mode : 70hours
	Talk Mode : 7hours
	Charging time : 10hours
Ambient Temperature	Normal : 15°C~35°C
	Extreme : -10°C~40°C
Humidity	5%~90%
Weight	Baset : 120g
	Handset : 100g
Dimensions	Baset : 64×160×73 mm (HWD)
	Handset : 115×22×46 mm (HWD)
Power Supply	Baset Input : DC 5V 400mA
Battery	Ni-MH: 2.4V, 600 mAh
Compliance	CTR 06
	CTR 10
	CTR 22
	EMC
	NET4 (PSTN)

## 2. Operations & Installstion

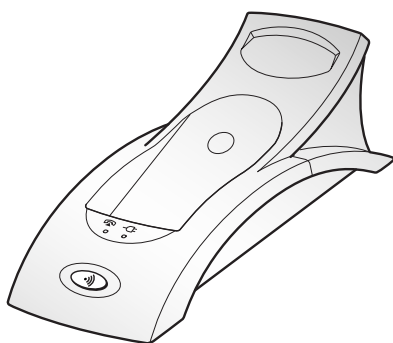
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### 2-1 Getting Started

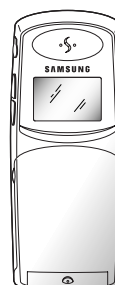
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#### 2-1-1 Checking Parts

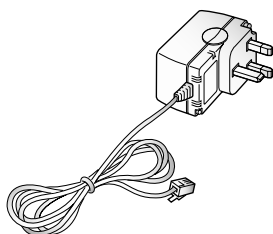
Once you have unpacked your phone, check to make sure that you have all the parts shown below. If any piece is missing or broken, please call your dealer.



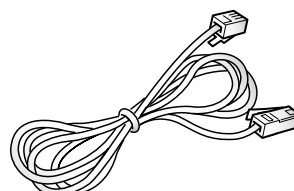
**Base**



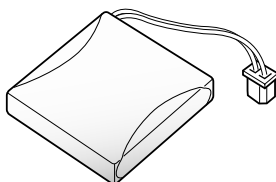
**Handset**



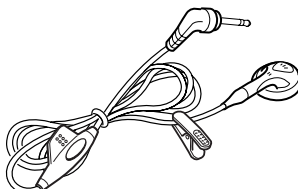
**Adapter**



**Line Cord**



**Battery**



**Handset**

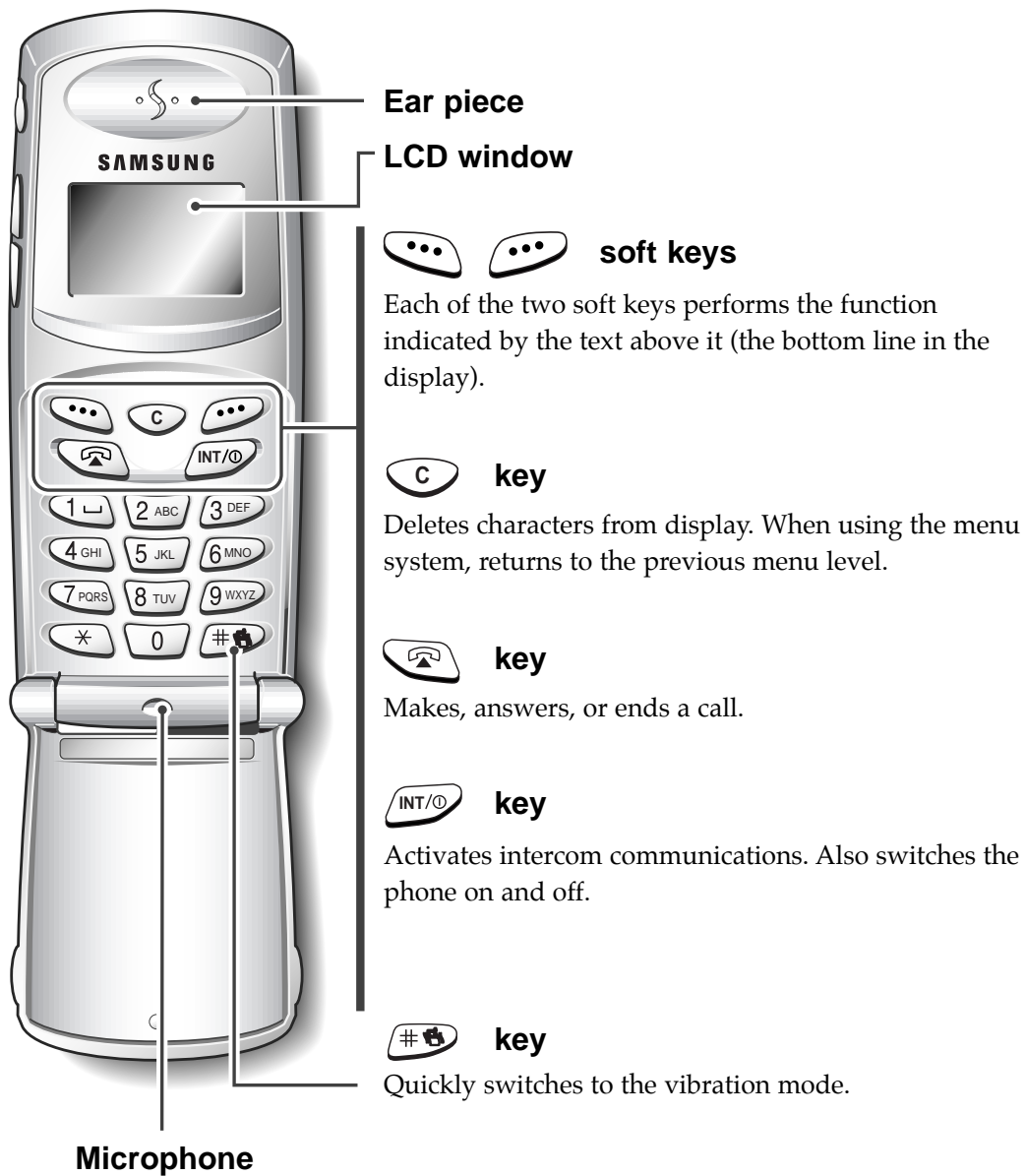


**User's Manual**

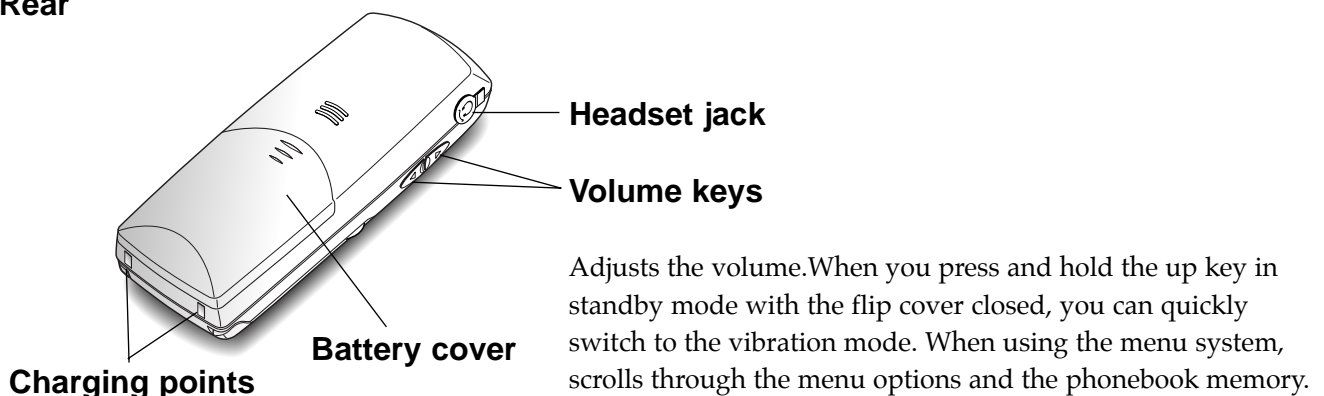
## 2-1-2 Control Locations

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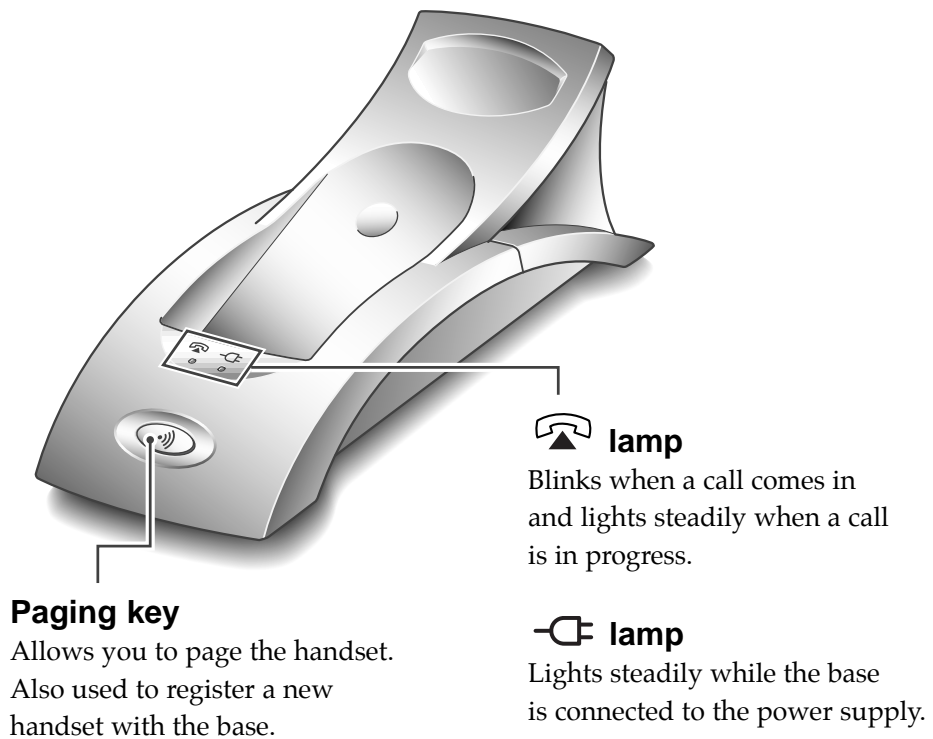
### Handset



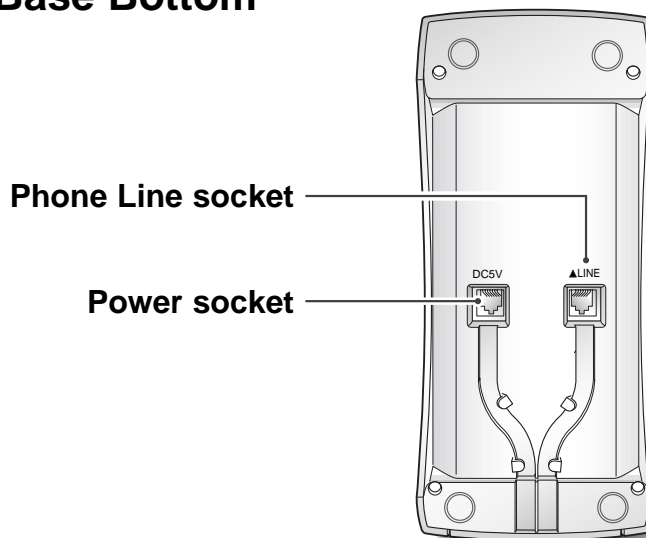
### Rear



## Base



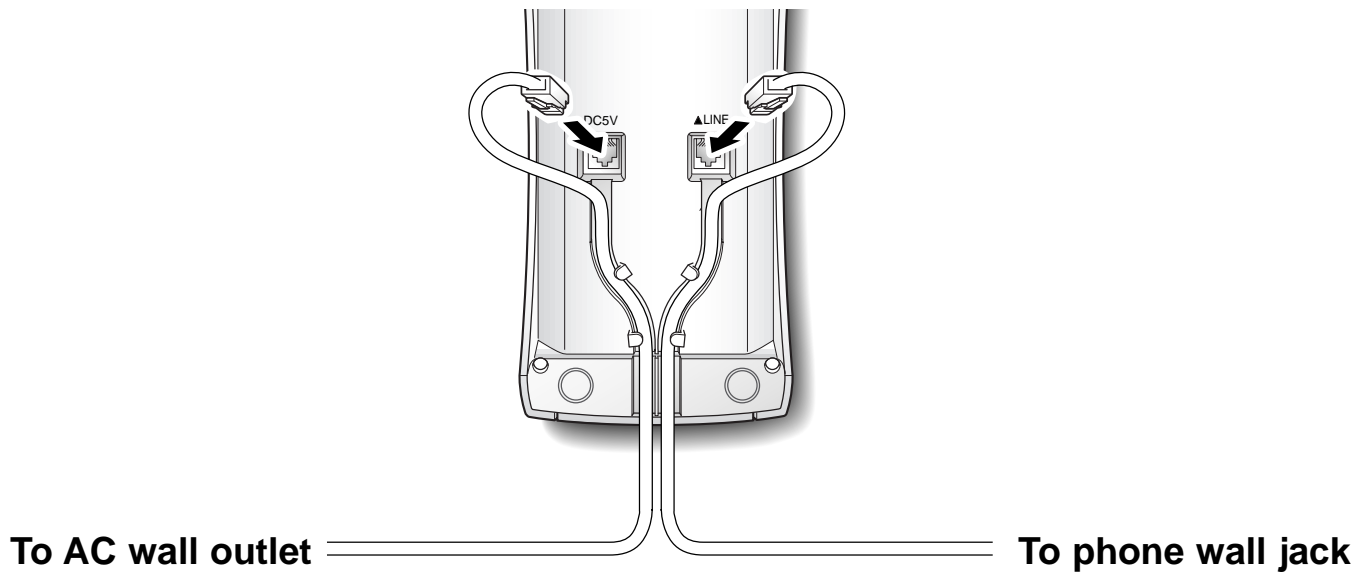
## Base Bottom



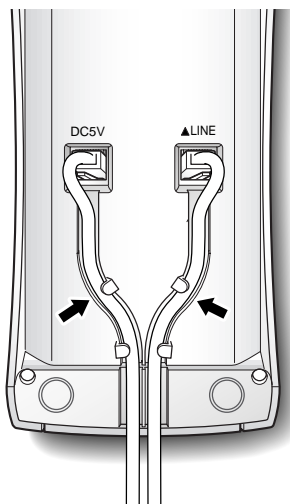
## 2-1-3 Connecting Lines

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1. Connect one end of the telephone line cord to the phone line socket on the bottom of the base unit, and the other end to a standard phone wall jack.
2. Connect the modular end of the power adapter to the power socket on the bottom of the base unit, and the other end to a standard AC wall outlet.



3. Route the cords through the recessed channel as shown.



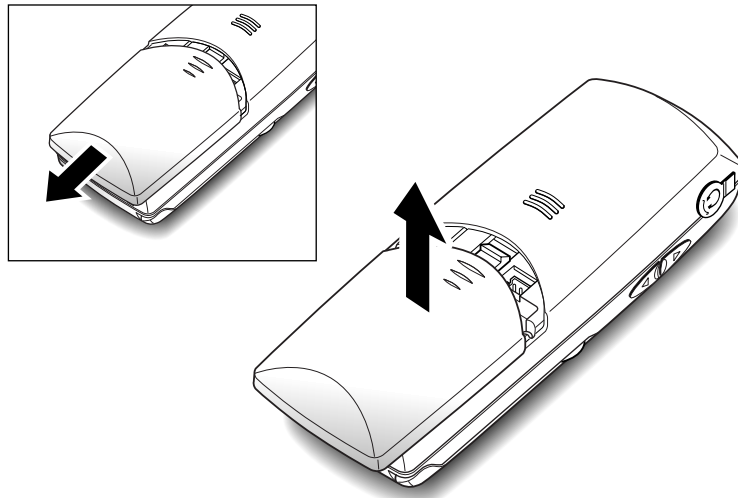


## 2-1-4 Installing Handset Batteries

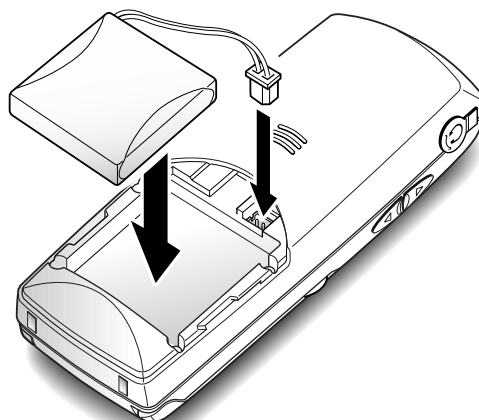
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The handset uses the rechargeable Ni-MH battery supplied.

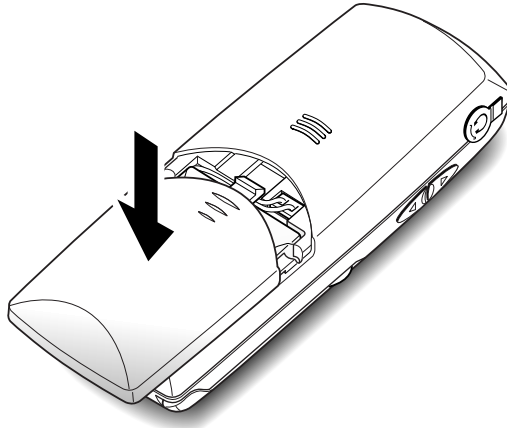
1. Slide the battery cover in the direction of the arrow, then lift it off.



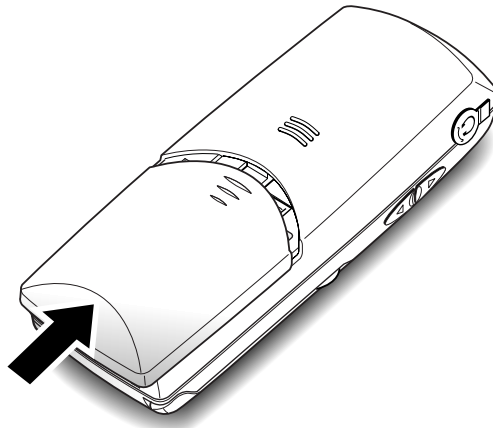
2. Remove old battery (if any), then plug the battery connector into the socket shown below, and insert the battery.



3. Replace the battery cover. Make sure that the cover is properly aligned.



4. Slide the cover up until it snaps shut.



**Notes:**

- The battery needs to be replaced if it does not recover its full storage capacity after recharging.
- When replacing battery, only use SAMSUNG-approved battery. For details, see 'Specifications' on page 65 or ask your nearest service center.

## 2-1-5 Charging the Handset

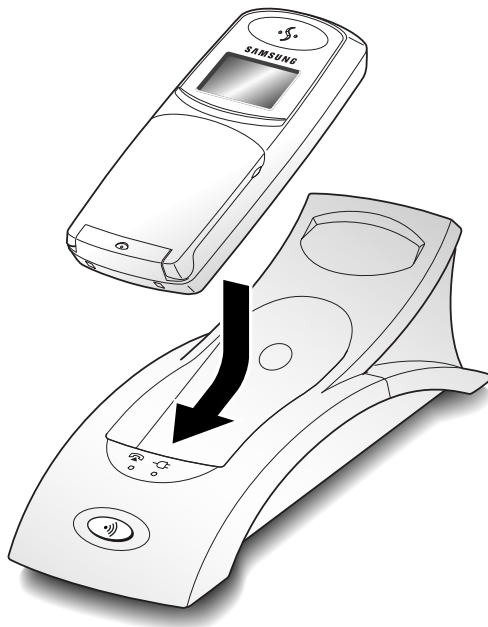
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Before initial operation, you should fully charge the handset for more than 10 hours.

To charge the handset, simply place it in the base unit.

The handset can be charged facing up.


When the handset battery is charging, the handset automatically turns on and the battery icon in the right corner of the display scrolls.



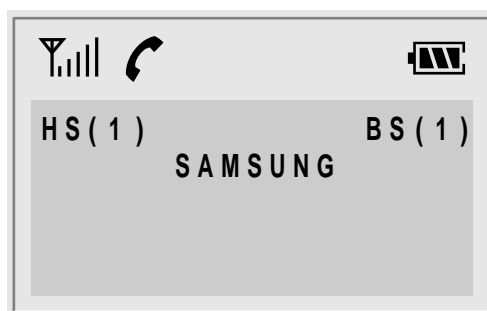
## 2-1-6 Turning the Handset On/Off


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When you place the handset in the base unit to charge it, the handset automatically turns on. To turn the handset on or off in Standby mode, follow these steps:

1. To turn on the handset when the display is off, press  key.

The display shows the handset and base number, and the greeting message SAMSUNG as shown below. (To change the greeting, see page 42) The phone is now ready for use.



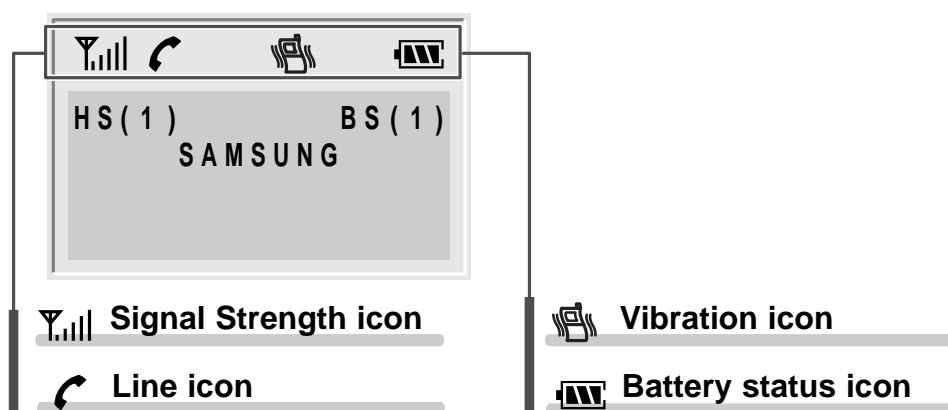
2. To turn the handset off, press and hold  key for about three seconds until the power-off message appears in the display. The display turns off.

### Notes:

- If you purchase an additional handset, you must register the handset to a base. If not, the display shows **Fail to Register** when you turn it on and only two soft keys work to allow you to register the handset. Refer to 'Registering a New Handset' on page 54.
- Nothing will appear in the LCD window when battery power is very low. You should fully charge the handset before operation.

## 2-1-7 LCD Window Icon Descriptions



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## 2-1-8 Choosing Dial Mode

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In order to provide compatibility with most telephone systems, your phone can be set to either pulse-dialling (same as rotary), or tone dialling (DTMF). Your phone is preset to tone mode.

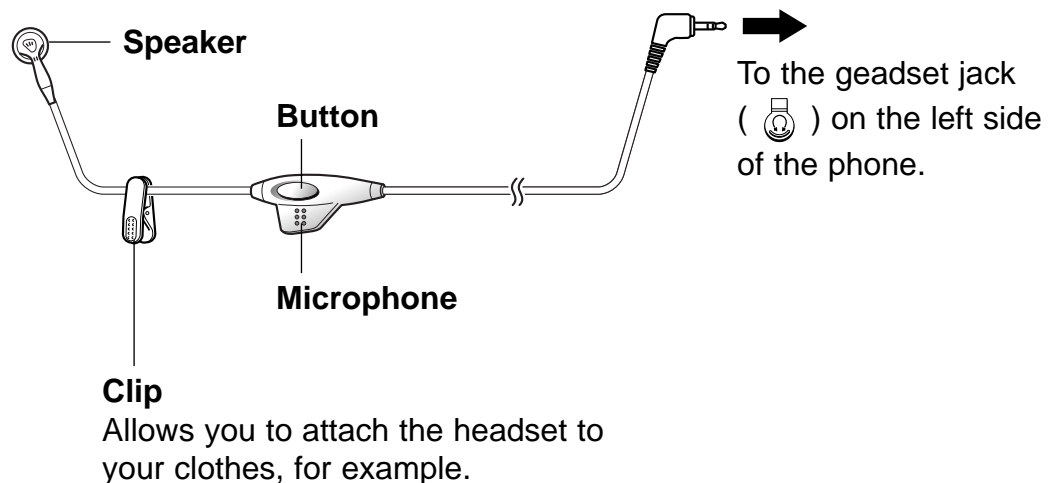
1. In the Standby mode, press the **Menu** soft key to access the menu mode.
2. Press the  soft key repeatedly until **Settings** appears, then press the **Select** soft key.
3. **Tone/Pulse** is displayed. Press the **Select** soft key.
4. The options are displayed; **Pulse** and **Tone**. Press the  soft key to change the setting.
5. Press the **OK** soft key to save the setting.

## 2-1-9 Using Headset

---

With the headset, you can talk without using your hands. When you connect the headset to the headset jack on the left side of the phone, the headset operates in the same way as the phone's speaker and microphone.

Pressing the button on the headset for more than one second allows you to answer or end a call (without opening the flip cover or pressing a key on the phone).




## 2-2 General Functions

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### 2-2-1 Making a Call


---

1. Open the flip cover, and press  key. You hear a dial tone.

**Note:** If you turn the **Active Flip** feature on, you do not need to press the  key. For details, see page 50.

2. Dial the desired phone number by using the number keypad.

**Note:** You can store telephone numbers in Phonebook memory and dial the numbers using the assigned memory address. Refer to 'Phonebook' on page 32.

3. When the other person answers, speak.
4. To end the call, either close the flip cover or press  key.



**Notes:**


- If you turn the 'Call Time Display' feature on, the LCD window displays the call time. For details, see 'Call Time Display' on page 49.
- To make a call to the last number you dialled, use the 'Redial' feature. For details, refer to 'Last Number Redial' on page 23.

You can enter the desired phone number in the Standby mode, and then dial the number. This way of dialling allows you to make corrections to the number before dialling. Follow these steps:

1. Enter a telephone number. Check the number in the LCD window.

**Notes:**

- If you make a mistake while entering a number, press the  key to clear the last digit and correct the number.
- If you press and hold the  key for more than one second, all digits you have entered are cleared and the phone returns to the Standby mode.


2. When the number appears correctly, press  key to dial the number.

## 2-2-2 Camp On Busy

---


*(Available only when you have more than one handset)*

This feature allows your handset to wait for connection to the telephone line currently engaged by another handset. Your handset rings when the telephone line becomes free.

1. You hear a short busy tone if you open the flip cover or press  key while another handset engages the telephone line.

The display shows the handset number currently engaging the line. Your handset is automatically camped on the line.

**Note:** To cancel this feature, press  key any time before the line is free. The handset returns to Standby mode.


2. Your handset rings and the window displays **FREE** when the line becomes free.
3. Press  key to engage the line while the handset rings.

### Notes:

- If an incoming call arrives while your handset rings to tell you the line is free, the 'Camp On Busy' feature is automatically cancelled and an incoming ring sounds.
- Several handsets can be camped on the busy line in chronological order. When the line becomes available to you, the LCD window displays **FREE**, and other handsets will display your handset number following the word **BUSY**.
- When your handset rings and the window displays **FREE**, press the key within 10 seconds. Otherwise, the handset returns to the Standby mode.

## 2-2-3 Receiving a Call


---



When somebody calls you, the phone rings. Also, the (()) icon in the middle of your handset's display and the telephone lamp on the left of the base will start to blink.


The caller's phone number will be displayed if the telephone network has transmitted the necessary information.

1. If the handset is on the base, pick up the handset and speak. Or

If the handset is out of the base, open the flip cover and speak. Or

If the handset is in the Standby mode with the flip cover open, press  key.

**Note:**  key and  key will not work for three seconds after the flip has been opened to receive a call in order to prevent the phone from being disengaged.

2. To end the call, close the flip cover or press  key.

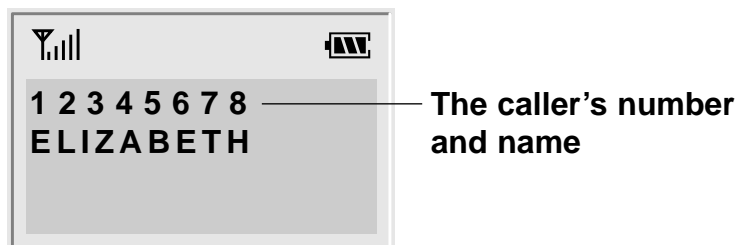
**Note:** If you set the 'Ring Delay Time' feature, you can turn the handset ringer off for the specified time when a call comes in and other handsets are ringing. Refer to 'Ring Delay Time' on page 48.



## 2-2-4 Caller ID Display

---

Caller ID displays the caller's name and number, as well as the date and time that the call was received. This feature is available on your phone if the caller's network transmits the necessary information. You can use this feature only when the caller's service network transmits the caller's information.



### Notes:

- The number of unanswered missed calls (if any) will be displayed.



Your phone keeps track of the last 20 calls received. Refer to 'Received Calls' on page 40 to check and dial the numbers.


- If a caller has chosen to withhold their number, you will see **ID NOT RECEIVED** in the display.
- If a caller's number is not available, you will see **ID NOT RECEIVED** in the display.

## 2-2-5 Last Number Redial


---

Your phone allows you to call the most recently dialled numbers again. The phone stores the last 10 numbers you called.

### To Dial the Last Number

1. Press the **Redials** soft key in the Standby mode. The last number you dialled is displayed.
2. Press  key to dial the last number.



### To View and Dial Any of Last 10 Numbers

1. Press the **Redials** soft key in the Standby mode.
2. Press the  soft key to scroll through the redial memory.

Each time you press the key, the numbers you dialled are displayed with the memory cell number. Cell 01 stores the last number and cell 10 stores the oldest number.

3. Press  key to dial the selected number.

### Notes:



- If there is no number dialled, Redials Empty is displayed.
- You can modify the number displayed by using  key before pressing  key .

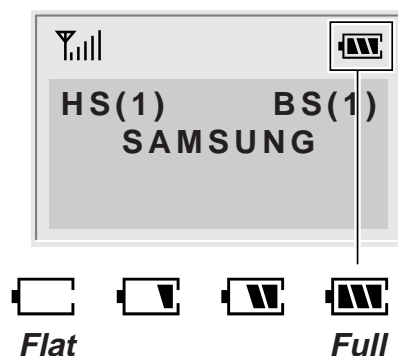
### To Erase All Numbers In Redial Memory


1. Press the **Redials** soft key in the Standby mode.
2. Press the **All Erase** soft key. The display prompts you to confirm the setting.
3. Press the **Yes** soft key. You hear a beep and the phone returns to the Standby mode after clearing the redial memory.

## 2-2-6 Battery Level Indicator

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A  icon is continuously displayed in the upper line of the LCD window. The  icon shows the level of your battery. The more bars you see, the more power you have left.




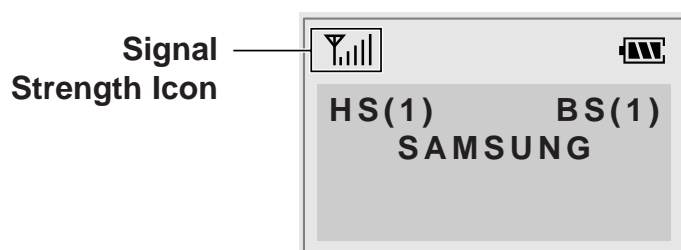
When the battery is weak and a few minutes of talk time remain, you will hear a warning tone and the  icon blinks.

When the battery becomes too weak for the phone to operate, the handset will automatically turn off. Place the handset on the base unit to charge the handset battery.

## 2-2-7 Out of Range Indicator

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Your phone indicates the received signal strength through the strength icon. The more bars you see, the stronger the signal is. If the handset is too far from the base unit and the handset cannot properly engage the telephone line, the  icon blinks in the LCD window.



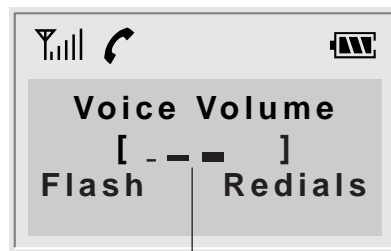
If you move out of range during a call, the telephone line might be disconnected and the handset returns to the Standby mode. Check if the icon blinks in the LCD window. If so, move the handset closer to the base unit.

## 2-2-8 Adjusting Ring Volume

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During calls, pressing the  or  keys on the side of the phone affects the ear piece volume.



You can adjust the volume from level 1 to 5, and it is preset to level 3. The voice volume is displayed as bars in the LCD window. The more bars you see, the louder the volume is.



*Ear piece volume indicator*

## 2-2-9 Adjusting Key Volume



---




In the Standby mode with the flip cover open, press  or  key on the side of the phone .



You can adjust the volume from level 0 to level 5, and it is preset to level 3. The key volume is displayed as bars in the LCD window. The more bars you see, the louder the volume is. No bar, no key beep.

## 2-2-10 Quick Switching to Vibration Mode

---

You can quickly switch your phone to vibration mode with a touch of the  key or  on the left side of the phone. This feature provides a convenient way to mute your phone's ringer quickly.

Press and hold the  key or  on the left side of the phone (with the flip cover closed) in the Standby mode. **Alert Type Vibration** is displayed for a second. Also, the  icon appears. Your phone switches to the vibration mode immediately.

Press and hold the  key or  on the left side of the phone (with the flip cover closed) again to resume the phone's alert type which was previously set through the **Ring Tone** option under **Ring** menu; see page 43 for further details.

## 2-2-11 Registered Recall

---


You can place a new call directly after a call or transfer a call to another extension under PABX, using this feature.

To send a flash, simply press the Flash soft key while the line is engaged. The display shows F.

## 2-2-12 Tone Dial Switchover

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To access certain services such as voice mail or interactive telephone system features, it is necessary to use tone dialling. When your phone is set to the pulse mode, DTMF dialling is available.

1. Press the asterisk key () while on the phone in the pulse dial mode. Your phone is converted to the tone dial mode temporarily.
2. When you press the **Flash** soft key or end the call, the phone automatically returns to the pulse mode.

## 2-2-13 Paging

---

You can page your handset from the base unit. Using this feature, you can find where the handset located.

Press the **Paging** key on the base unit. The left lamp marked  on the base blinks and all handsets registered with the base will ring for about 10 seconds .

Note: If an incoming call comes in while the handset is being paged, the handset stops paging and sounds the ringer.

## 2-3 Using the Menus

---

A two-level menu structure is available to set the various options available on your phone. You can set the menu options in two different ways, via the soft keys or by using the index system.

### 2-3-1 Using the Soft Keys

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The two soft keys are used in the following ways.

Key	Purpose
-----	---------





Left soft key

Enters the menu structure.  
Selects the option displayed.




Right soft key

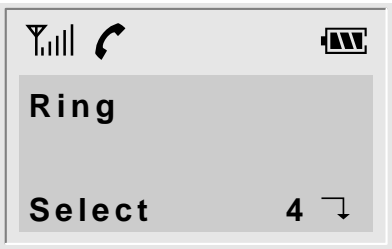
Moves to the next option on the same  
level that is being displayed.


You can also use the  or  key on the left side of the phone to move to the next or previous option on the same level as the one displayed.

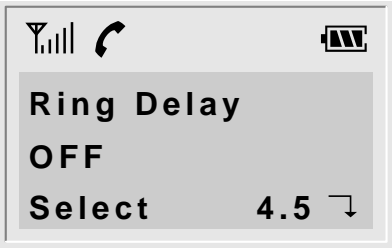
To go back to the previous menu level, use the  key.

Example: Accessing the **Ring Delay** option

1. Press the **Menu** soft key to access the menu mode.
2. Press the  soft key repeatedly until **Ring** appears.




3. Press the **Select** soft key to access the **Ring** menu.
4. Press the  soft key repeatedly until **Ring Delay** appears.





5. Press the **Select** soft key to access the **Ring Delay** option. Now you are connected to the **Ring Delay** option.

## 2-3-2 Using the Index System

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Each menu option is assigned a hierarchical number. You will find the number in the lower right corner of the display, next to  (refer to the display diagram above). You can use this number to access the corresponding option directly. Simply press the **Menu** soft key to access the menu mode and key in the required number.

Example: Accessing the **Ring Delay** option

1. Press the **Menu** soft key to access the menu mode.
2. Press  to access the **Ring** menu.
3. Press  to access the **Ring Delay** option. Now you are connected to the **Ring Delay** option.

## 2-4 PhoneBook



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
The Phonebook allows you to store frequently used phone numbers and their associated names in your personal directory so that you can easily make a call without having to remember or enter the phone number. You can store up to 70 numbers.


### 2-4-1 Storing a Phone Number with a Name

---

1. In the Standby mode, enter the desired number (up to 24 digits).
2. Press the **Save** soft key. **Enter Name ?** appears and the cursor blinks.
3. Enter the name (up to 10 digits) for the number, then press the **OK** soft key. Refer to 'Entering a Name' on opposite page.

**Note:** If you make a mistake while entering a name/number or if you want to edit a name/number, press the  key. Each time you press the key, the last letter/digit is cleared. To clear all letters/digits, press and hold the  key. Then enter the correct name/number.

4. The first available memory address that the number can be saved to will blink.. If you want to find another memory address, enter the desired address number or scroll the memory addresses by using the  soft key.
5. Press the **Select** soft key to save the setting.

**Note:** If you select an address that already has a number stored under it, you are asked if you want to overwrite the address with the newly entered number. If you are, press the **Yes** soft key. If not, press the **No** soft key or the  key.



## 2-4-2 Entering a Name

---

1. Press the key labeled with the required letter:



- Once for the first letter
- Twice for the selected letter
- And so on

The following characters are available:

Key	Characters in the Order Displayed	
	Upper Case	Lower Case
1	Space . 1 ! ? & i ç §	Space % @ _ £ \$ ¥ ¨
2	A B C 2 Ä Å Æ Ç Γ	a b c 2 à ä å æ
3	D E F 3 É Δ Φ	d e f 3 è é
4	G H I 4 Θ Ψ	g h i 4 ì
5	J K L 5 Λ	j k l 5
6	M N O 6 Ñ Ø Ö	m n o 6 ñ ø ò ö
7	P Q R S 7 Π Σ Ξ	p q r s 7 β
8	T U V 8 Û	t u v 8 ù ü
9	W X Y Z 9 Ω	w x y z 9
0	0 , : ; ‘ “ / =	0 - + ( ) * # < >

2. To switch between upper case and lower case characters, press the **Case** soft key. All subsequent letters will appear in the selected case until the **Case** soft key is pressed again.

3. Select the other letters in the same way. The cursor moves to the right when you press a different key.

**Note:** When entering the same letter twice (or a different letter on the same key), just wait for a few seconds for the cursor to move automatically, and then select the next letter. You can move the cursor to the left by using the  key on the side of the phone. To delete letters, use the  key.

### Using a Pause

A pause is useful when you access an interactive voice response system, such as an automated banking system. A pause delays dialling for 3 seconds.

If you want to insert a dialling pause between numbers, press the Pause soft key. **P** appears at the pause entry.

## 2-4-3 Dialling a Number in Phonebook

---


Once you have stored phone numbers in the phonebook memory, you can dial them easily whenever you want.

### One-Touch Dialling

Memory addresses 01 through 09 are special one-touch addresses. You can dial the phone numbers stored in the Phonebook memory from 01 through 09 simply by pressing one key.

In the Standby mode, press and hold the second digit of the memory address containing the number to be dialled.



For example: Address no. 09

Press  and hold. The number stored is displayed, then dialled.

### Two-Touch Dialling

In the Standby mode, press the first digit briefly, then hold down the second digit of the memory address.

For example: Address no. 23

Press  briefly and hold down .

The number stored is displayed, then dialled.

## 2-4-4 Searching for Numbers in Memory

---

If you do not remember which telephone numbers have been stored in the various memory addresses, you can scan through the memory until you find the one you are looking for.



### By Name

1. Press the **Menu** soft key. **Phonebook** appears.
2. Press the **Select** soft key to access the **Phonebook** menu. The phonebook options are displayed. The option in bold type will be selected when you press the **Select** soft key.
3. Press the **Select** soft key to access the **Find Name** option. **Enter Name ?** is displayed.
4. Enter all or part of the name by using the number key marked with the desired letter.


Example: Enter A to find all names beginning with the letter A.

5. Press the **View** soft key. The first name is displayed with the memory address number and the telephone number



**Note:** If the message **Data is not found** is displayed, the name matching the request is not in the memory.

6. If the name shown is not the desired one, use the  soft key to scroll through the stored names.
7. If you want to call the selected number, press the  key.

### By Address Number


1. Press the **Menu** key. **Phonebook** appears.
2. Press the **Select** soft key to access the **Phonebook** menu. The phonebook options are displayed.
3. Press the  soft key until the **Find Address** option is selected, then press the **Select** soft key. **Enter Address ?** is displayed.
4. Enter the desired address number, then press the **View** soft key. The phone number and associated name (if any) are displayed.

**Note:** If the address is empty, **Data is not found** is displayed. Then the display shows the first available address in which a phone number is stored.

5. Use the  soft key to display the next or the previous memory address.
6. If you want to call the number, press the  key.

## 2-4-5 Erasing All Numbers

---


1. Press the **Menu** soft key. **Phonebook** appears.
2. Press the **Select** soft key to access **Phonebook** menu. The phonebook options are displayed.
3. Press the  soft key until **All Erase** is selected, then press the **Select** soft key. You are asked if you are sure you want to erase all numbers stored in your phonebook memory.
4. Press the **Yes** soft key to confirm the deletion.

## 2-4-6 Phonebook Options


---

When you are viewing a number in the Phonebook, **Options** appears above the left soft key to allow you to access the phonebook options, described in the following paragraphs.

### Accessing to the Options


1. Press the **Options** soft key when it appears. The options are displayed.
2. Press the  soft key until a desired option is selected. The option in bold type will be selected.
3. Press the **Select** soft key.

### Edit Name

Edit the name by using the keypad and the  key, then press the **OK** soft key. For details on entering a name, see page 33.

Your phone displays the newly edited name, its number and its address number.

### Edit Number

Edit the number by using the keypad and the  key, then press the **OK** soft key. Your phone displays the newly edited number, its name and its address number.

### Erase

If you press the **Select** soft key when **Erase** is selected, you are asked to confirm the deletion. Press the **Yes** soft key to confirm the deletion.


## 2-5 Received Calls (Caller ID)

---

When you receive a call, the caller's phone number is shown on your phone's display, if it is available from the network on which the call was made. The last 20 numbers received are stored in your phone and you can view the list and dial the numbers.



### 2-5-1 Viewing and Dialling a Number

---

1. Press the **Menu** soft key. **Phonebook** appears.
2. Press the  soft key repeatedly until **Received Calls** appears.
3. Press the **Select** soft key. The LCD window shows the last caller's number, and the date and time when the call was received, if the necessary information was transmitted from the caller's telephone network.

If the address number blinks, it means you missed the call.

If there is no number received, **Received Calls Empty** is displayed.


4. Scroll the memory by using the  soft key and choose the desired number.
5. To dial the selected number, press  key.

## 2-5-2 Received Calls Options

---

When you are viewing received numbers, **Options** appears above the left soft key to allow you to access the received call options, described in the following paragraphs.

### Accessing the Options

1. Press the Options soft key when it appears. The options are displayed.
2. Press the  soft key until a desired option is selected. The selected option is in bold type.
3. Press the **Select** soft key.

### Save Book

You can save the selected number in your Phonebook memory.

Enter the name for the number and press the **OK** soft key. Then choose the address number and press the **Select** soft key.

### Erase

When you are asked to confirm that you want to erase the selected number, press the **Yes** soft key. The selected number will be erased.

### All Erase

When you are asked to confirm that you want to erase all numbers, press the **Yes** soft key. All received numbers will be erased.


## 2-6 Greeting Message


---

This option allows you to enter a greeting message that will be displayed when your phone is in the Standby mode. You can change the greeting message according to your own preference.

### 2-6-1 Greeting Message

---

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until Greeting Message appears.
3. Press the **Select** soft key. The cursor is blinking. If you have already registered a greeting message, the message is displayed.
4. Enter your personal greeting by pressing the alphanumeric keys on the number keypad. A maximum of 16 digits can be entered. For details on entering a name, see page 33.

Note: If necessary, use the  key to erase the current greeting message.

5. Press the **OK** soft key to save the setting.

Note: If you want to restore the greeting message to the default setting, **SAMSUNG**, erase all the existing messages and press the **OK** soft key.

## 2-7 Ring




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You can use the **Ring** menu to customize various sound settings such as ring volume, type and tone. Also you can delay the ring for a specified time via the menu.

### 2-7-1 Choosing Ring Tone





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You can define your own ring sound. Ten ring tones are available. The factory default setting is 'Tone 1'.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Ring** appears, then press the **Select** soft key. **Ring Tone** appears.
3. Press the **Select** soft key to access the option.
4. Press the  soft key repeatedly until you choose a desired ring tone. Each time you press the  soft key, the handset sounds the ring you have chosen.
5. Press the **OK** soft key to confirm the setting.

### 2-7-2 Adjusting Ring Volume

---

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Ring** appears, then press the **Select** soft key.
3. Press the  soft key repeatedly until **Ring Volume** appears, then press the **Select** soft key. The current Ring Volume setting appears.
4. Press the  or  key on the side of the phone to choose the volume level you want.

Each time you press  or  key, the handset sounds the ring with the level you have chosen.

The ring volume is displayed as bars in the LCD window. The more bars you see, the louder the volume is.



5. Press the **OK** soft key to confirm the setting.



## 2-7-3 Choosing Alert Type


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This option allows you to indicate how you wish to be informed of any incoming calls. The following options are available.



1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Ring** appears, then press the **Select** soft key.
3. Press the  soft key repeatedly until **Alert Type** appears, then press the **Select** soft key.

The **Alert type** options are displayed:

- **Ring:** The handset rings using the ring tone selected via the 'Ring Tone' menu.
- **Vibra + Ring:** The handset vibrates first, then rings.
- **Vibration:** The handset vibrates but does not ring.

4. Press the  soft key to select the alert type, then press the **OK** soft key.

### Notes:

- Your handset will ring when it is on the base unit, even if it has been placed in vibration mode.
- To switch to vibration mode quickly, press and hold the  key in the Standby mode. To resume the handset's alert type, press and hold the  key again in the Standby mode. Refer to page 26.

## 2-7-4 Unique Ring Tones for selected calls






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This new feature allows you to distinguish between different callers by assigning unique ring tones to specific numbers stored in your handset. When a call is received from a specified number, you will hear a unique ring sound that can only be heard when that specific number calls.

**Note:**



- This feature is only available if the telephone systems used by both you and the caller support Caller ID. Please contact your telephone service provider for more information.

You can choose from ten different tones and assign these as unique ring tones for up to three different callers.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Ring** appears, then press the **Select** soft key.
3. Press the  soft key repeatedly until **Unique Ring Tone** appears, then press the **Select** soft key. The first ring address and its settings (if already registered) are displayed.
4. Press the  soft key to choose the ring address you want, then press the **Options** soft key.
5. Press the **Select** soft key to choose the **Ring Tone** option. Available ring tones are displayed.
6. Press the  soft key to choose the ring tone, then press the **OK** soft key.
7. Press the **Options** soft key.
8. Press the  soft key to select the **Enter Number** option, then press the **Select** soft key.
9. Enter the number you want to designate, then press the **OK** soft key.
10. Enter the name for that number, then press the **OK** soft key. Refer to 'Entering a Name' on page 33.

### To Deactivate a Number's Unique Ring Tone




You can selectively deactivate a number's unique ring by erasing that number.

1. In the **Unique Ring Tone** mode (see steps 1 through 3 on opposite page), use the  soft key to select the ring address containing the number you want to erase.
2. Press the **Options** soft key.
3. Press the  soft key until the **Erase** option is selected, then the **Select** soft key.
4. When you are asked to confirm the setting, press the **Yes** soft key.

## 2-7-5 Ring Delay Time

---

If you activate the ring delay time, your handset will not ring for a specified delay time while other handsets are ringing. If you wish, you can answer the call within the delay time on your handset.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Ring** appears, then press the **Select** soft key.
3. Press the  soft key repeatedly until **Ring Delay** appears, then press the **Select** soft key.
4. The ring delay time options are displayed. The current setting is in bold type. Press the  soft key to select the ring delay time.

You can choose from 'OFF' to 30 seconds using increments of 5 seconds. Selecting 'OFF' deactivates the feature.

5. Press the **OK** soft key to save the setting.

## 2-8 Settings

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Many different features of your phone can be customized to suit your preferences. All of these features are accessed via the Settings menu.

### 2-8-1 Tone/Pulse




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Refer to page 2-2-12.

### 2-8-2 Call Time Display

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

If you turn this feature on, the handset automatically times the duration of calls. The handset displays the call duration both during your call and for a few seconds after your call is completed. The feature is preset to 'ON'.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Settings** appears, then press the **Select** soft key.
3. Press the  soft key repeatedly until **Call Time** appears, then press the **Select** soft key. The Call Time options are displayed; **OFF** or **ON**.
4. Press the  soft key to turn the feature **OFF** or **ON**. The selected option is in bold type.
5. Press the **OK** soft key to save the setting.

### 2-8-3 Base Number Display


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


This feature allows the phone to display the base number currently in use while in the Standby mode. The feature is preset to **ON** at factory.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Settings** appears, then press the **Select** soft key.
3. Press the  soft key repeatedly until **Base Number** appears, then press the **Select** soft key.
4. The Base Number options are displayed; **OFF** or **ON**. Press the  soft key to turn the feature **OFF** or **ON**. The selected option is in bold type.
5. Press the **OK** soft key to save the setting.

## 2-8-4 Active Flip

---




This feature allows you to automatically engage the telephone line by opening the flip cover. When this feature is set to **ON**, there is no need to press the  key. This feature is preset to **OFF** at factory.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Settings** appears, then press the **Select** soft key.
3. Press the  soft key repeatedly until **Active Flip** appears, then press the **Select** soft key.
4. The Active Flip options are displayed: **OFF** or **ON**. Press the  soft key to turn the feature **OFF** or **ON**. The selected option is in bold type.
5. Press the **OK** soft key to save the setting.

## 2-8-5 Language Selection

---

You can select a display language. 8 different languages are available.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Settings** appears, then press the **Select** soft key.
3. Press the  soft key repeatedly until **Language** appears, then press the **Select** soft key.
4. The language options are displayed. The currently selected language is in bold type. Press the  soft key to select a language.
5. Press the **OK** soft key to save the setting.

## 2-9 System

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Up to six handsets can be registered and operated from your base unit. You can register and remove a handset through the **System** menu. You can also reset the handset to its default configuration.

## 2-9-1 Call Barring

---


It is possible to set the phone to restrict numbers that can be dialled. The phone cannot dial a phone number beginning with the numbers that you specify.

You can set up to 4 different restricted numbers containing up to 4 digits each.


If you turn the feature on, the handset requires a PIN code when the restricted number is dialled. If you fail to enter the correct PIN code three times successively, your phone returns to the Standby mode. If you enter a correct PIN, you can make calls.

**Note:** You can make an emergency call (112, 999) even when you activate the outgoing call barring option.

### To Set Call Barring Numbers



1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **System** appears.
3. Press the **Select** soft key to access the menu. You are asked to enter the PIN code. It is preset to 0000.
4. Enter the PIN code, then press the **OK** soft key. **Call Barring** appears.

**Note:** If you enter the wrong PIN number, the handset returns to the Standby mode.

5. Press the **Select** soft key to access the **Call Barring** option. The first barring address containing a restricted number, if already registered, appears.
6. If you want to choose another barring address, select the desired address by using the  soft key.
7. Press the **Edit** soft key.
8. Enter up to 4-digit number by using the numeric keys that you want to restrict, then press the **OK** soft key.
9. If you want to block another number, repeat steps 6 through 8.

### To Deactivate a Specific Call Barring Number

You can selectively deactivate the restricted number by erasing the number.

1. In the Call Barring mode (see steps 1 through 5 on opposite page), use the  soft key to select the address containing the restricted number you want to deactivate.
2. Press the **Edit** soft key, then use the  key to erase the number.
3. Press the **OK** soft key.


## 2-9-2 Registering a New Handset

---

The handset supplied with the base unit is already registered as handset 1. Each additional handset you purchase must be registered to the base unit.

1. Press and hold the **Paging** key on the base for more than 3 seconds. The light is blinking.
2. Press the **Menu** soft key on the handset.
3. Press the  $\nabla$  soft key repeatedly until **System** appears, then press the **Select** soft key. You are asked to enter the PIN code. It is preset to 0000.
4. Enter the PIN code, then press the **OK** soft key.
5. Press the  $\nabla$  soft key repeatedly until **Registration** appears.
6. Press the **Select** soft key. The available bases are displayed. The selected base to which your handset is registered has a check mark on its right side.
7. Select a base by using the  $\nabla$  soft key, then press the **Select** soft key. **Please wait** appears for a short time, then the LCD window displays the ID of the base unit.
8. Press the **OK** soft key.
9. Enter **9234**, the **Authentication Code**, which is preset at factory, then press the **OK** soft key.
10. When the registration is properly completed, the handset returns to the Standby mode and displays the base number and the handset number.
11. Unplug the power cord and then plug it in again.

### Notes:


- If you have registered the handset to several bases, and the base number you select at step 7 is already used for another base, you will be asked to confirm that you want to overwrite. If you press the **Yes** soft key, the old information is cleared and the base number will be used for your newly selected base. To keep old information, press and hold the  key to cancel the setting, then start over again with a different base number.
- The time limit for registering a handset to a base is 60 seconds. The registration will be automatically cancelled when this time has elapsed.
- If you fail to register the handset, the handset displays **Fail to Register**.

## 2-9-3 Intercom Between Handsets












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*(Available only when you have more than one handset)*

If you have multiple handsets registered with the base, two handsets can talk to each other on an internal intercom call, while a third handset can be on an external call.

1. Press  key on your handset. **INTERCOM** -> displays and the cursor blinks.
2. Enter the number of the handset (1-6) you want to page.
3. The paged handset rings. The LCD window on the paged handset displays your handset number.

### Notes:

- If you enter a handset number that does not exist, the handset shows **IT IS NOT REGISTERED** and sounds an error tone.
  - To cancel intercom, close the flip or press either  key or  key.
  - You cannot adjust the intercom ringer volume.
4. To answer the call from you, the paged handset should open the flip or press either  or  key.
  5. When the paged handset answers you, speak.
  6. To end the call, close the flip or press either  or  key.
- ### Notes:
- If an external call comes in during an intercom conversation, you will hear beeps. When you hear the low beeps, finish the intercom call by pressing  or  key. The external ring sounds. Press  key to answer the call.
  - When you make an intercom call, if **Busy** appears in the display and you cannot communicate with the paged handset, the paged handset is engaged with an outside party. Your handset is automatically camped on to the busy station, and when the busy station becomes free, both handsets will ring.
  - When you make an intercom call, if **INTERCOM IS USED** is shown in your display, the handset you tried to connect with is engaged with another internal line.
  - In step 3, if the paged person opens the flip cover to answer the call from you, that person does not need to press  or  key.








## 2-9-4 Call Transfer Between Handsets

---



*(Available only when you have more than one handset)*

You can transfer a call from one handset to another.

1. During a telephone conversation, press  key. Your caller will be put on hold and will hear music.  
**INTERCOM** -> displays and the cursor blinks.
2. Enter the number (1 through 6) of the handset to which you want to transfer the call.
3. The paged handset rings. To answer the call from you, the paged handset should open the flip cover or press either  key or  key.
4. You can speak with the handset (Intercom).
5. To transfer the external call to the paged handset, close the flip or press  key.  
  
To cancel the call transfer and talk with the outside party again, press  key.

## 2-9-5 Removing a Handset

---



1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **System** appears, then press the **Select** soft key.
3. Enter the PIN code, then press the **OK** soft key.
4. Press the  soft key repeatedly until **Remove Handset** appears, then press the **Select** soft key.
5. The selected base number to which your handset is currently registered appears. Press the **Yes** soft key.
6. When the handset is properly removed, **Fail to Register** is displayed. Now, you cannot use the handset with the base unit unless you register the handset back to it.


**Note:** If the handset is registered to more than one base unit, and you want to use the handset with other base units, you have to choose one of the other bases available. Refer to 'Selecting Base Manually' on page 64.

## 2-9-6 Changing PIN (Personal Identification Number)

---

The PIN is required when you access **System** menus. The PIN is preset to '0000' at factory. You can change the PIN code.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **System** appears, then press the **Select** soft key.
3. Enter the PIN code, then press the **OK** soft key.
4. Press the  soft key repeatedly until **Change PIN** appears, then press the **Select** soft key.
5. **New PIN [ ]** is displayed. Enter a new PIN code, then press the **OK** soft key. The LCD window does not display the PIN code you entered in order to maintain secrecy.

**Note:** It must be 4 digits. If you make a mistake, you can correct the number by using the  key.

6. Enter the new PIN code again to confirm the number, then press the **OK** soft key.

### Notes:

- If you enter a different number from the new code, the phone sounds an error beep, and returns to the previous screen.
- If you change the PIN code and then forget it, you will have to contact your local service center.
- If you want to exit from the Change PIN mode while changing PIN, press the **Exit** soft key.



## 2-9-7 Reset Handset

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If you reset the handset, all numbers stored in your phone memory are cleared, and all the user-selectable features return to the manufacturer's default status as shown below:

- Redials/Received Calls/Phonebook : All Erase
- Ring Tone: Tone 1
- Ring Delay: OFF
- Base Number: ON
- PIN code: 0000
- No number barred
- Greeting Message: SAMSUNG
- Key Volume : Level 1
- Unique Ring Tone: OFF
- Ring Volume: Level 3
- Call Time: ON
- Active Flip: OFF
- Auto Find: OFF
- Voice Volume : Level 3

**Note:** The Dial type will not change even after resetting the handset.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **System** appears, then press the **Select** soft key.
3. Enter the PIN code, then press the **OK** soft key.
4. Press the  soft key repeatedly until **Reset Handset** appears, then press the **Select** soft key.
5. When you are asked to confirm that you want to reset the handset, press the **Yes** soft key to confirm.

## 2-10 Base



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The SP-R6100 handset may be used with up to four base units. To use the handset with more than one base unit, you must register the handset to each base unit. Refer to 'Registering a New Handset' ON 2-9-2.

### 2-10-1 Selecting Base Manually

---

You can select a base unit through which you want your handset to operate.




1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Base** appears, then press the **Select** soft key.
3. **Select Base** is displayed. Press the **Select** soft key.
4. The available bases are displayed. The base to which your handset is registered has a check mark on its right-hand.
5. Press the  soft key repeatedly to choose the desired base unit.
6. Press the **Select** soft key to confirm.

## 2-10-2 Finding Base Automatically

---

With the 'Auto Find' feature set to **ON**, if you are moving around, and lose contact with the base unit, the handset will automatically find the first available base unit.

The feature is preset to **OFF**.

1. In the Standby mode, press the **Menu** soft key.
2. Press the  soft key repeatedly until **Base** appears, then press the **Select** soft key.
3. Press the  soft key repeatedly until **Auto Find** appears, then press the **Select** soft key.
4. The display shows the current setting; **OFF** or **ON**. Press the  soft key to choose **OFF** or **ON**.
5. Press the **OK** soft key to confirm.

## 2-10-3 Troubleshooting

---

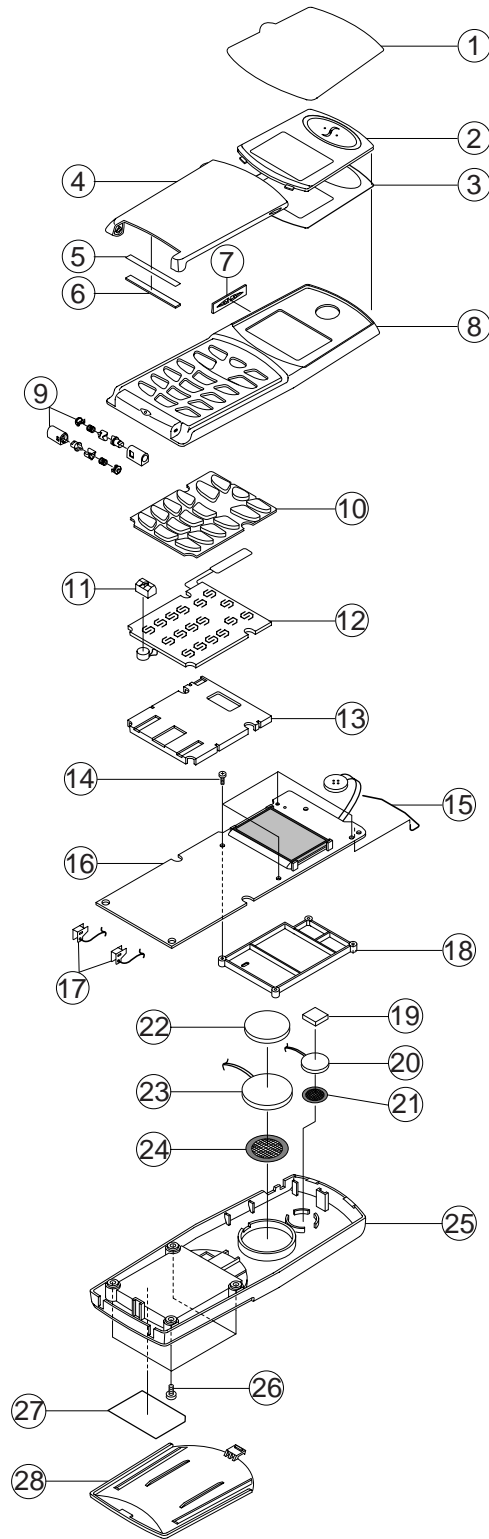
Symptom	Check
No operation	<ul style="list-style-type: none"><li>• Check that the power adapter is properly connected.</li><li>• Check that the telephone line cord is properly connected.</li><li>• Check that the handset is fully charged.</li><li>• Check that the handset batteries are installed properly.</li></ul>
No dial tone	<ul style="list-style-type: none"><li>• Check that the telephone line cord is properly connected.</li><li>• Check that the power adapter is properly connected.</li></ul>
The handset seems to have very short battery life.	<ul style="list-style-type: none"><li>• Clean the charging points.</li><li>• Consistently short battery life may indicate that replacement of the batteries is necessary.</li></ul>
Warning beep occurs when making a call	<ul style="list-style-type: none"><li>• Check that the handset batteries are not in low status</li></ul>

### 3. Exploded View & Parts List

#### 3-1 SP-R6100 HANDSET P/L

Location No	Code No	Description	Specification	Q'ty	
1	GG74-00022A	WINDOW-TAPE	15X2Xt0.8	1	SNA
2	GG72-00049A	WINDOW-LCD		1	
3	GG74-00018A	TAPE-WINDOW		1	
4	GG72-00042A	FLIP-COVER		1	
5		MAGNETIC		1	SNA
6	GG68-30545A	LABEL(R)-FLIP		1	
7	GG73-00012A	KEY-VOLUME		1	
8	GG72-00057A	FRONT-COVER		1	
9	GH75-00046A	MEC. HINGE		2	SNA
10	GG73-00014A	KEY-PAD		1	
11	GG73-00013A	HOLDER-MIC		1	
12		SUA. KEY-PBA		1	
13	GG72-00043A	KEY-SPACER	MACHINE, CH, +, M1.7X4.5	1	
14	6001-001110	SCREW-MACHINE		4	
15	GG71-00020A	ANTENNA-WIRE(A)		1	
16		SUA. LOGIC-BOARD		1	
17	GG71-00019A	CONTACT-BASE		2	
18	GG72-00044A	SHIELD-COVER(R/M)		1	
19	GH74-10567A	SPONGE-SPK		1	
20	GH31-10004A	VIBRATOR		1	
21	GG74-00019A	TAPE-VIBRATOR		1	
22	GG74-00026A	SPONGE-BUZZER	MACHINE, B, BH, +, M2X4	1	SNA
23		BUZZER		1	
24	GG74-00020A	TAPE-BUZZER		1	SNA
25	GG72-00045A	REAR-COVER		1	SNA
26	6001-001060	SCREW-MACHINE		4	SNA
27	GG68-00199A	LABEL(R)-HANDSET		1	
28	GG72-00046A	BATTERY-COVER		1	

## 3-2 SP-R6100 HANDSET Exploded View

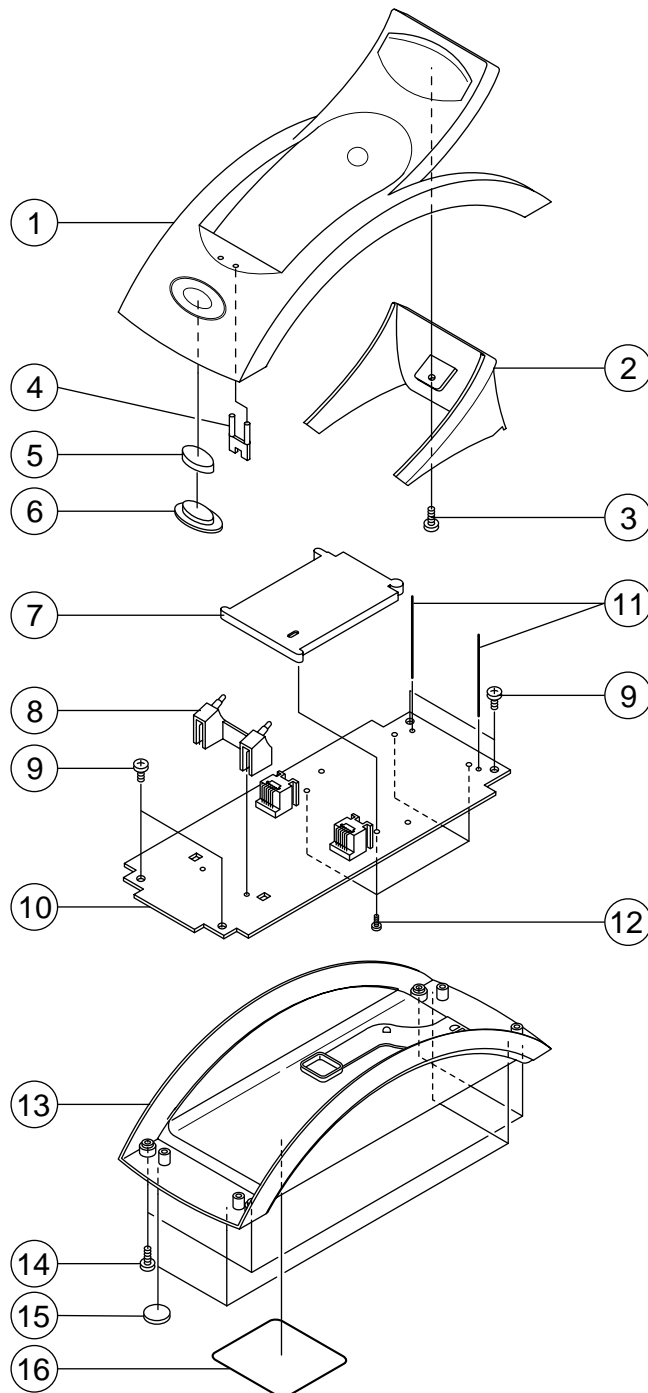




### 3-3 SP-R6100 BASE P/L

Location No	Code No	Description	Specification	Q'ty	
1	GG72-00047A	BASE-UPPER		1	
2	GG72-00051A	BACK-COVER		1	SNA
3	6003-001051	SCREW-TAPTITE	TAPTITE, BH, +, 2, M2.6X8	1	
4	GG72-00050A	LED-LENS		1	SNA
5	GG72-00048A	KEY-TOP		1	SNA
6	GG73-00016A	KEY-RUBBER		1	SNA
7	GG72-00053A	SHIELD-COVER(B)		1	
8	GG75-00026A	MEC. TERMINAL		1	
9	6002-000352	SCREW-TAPTITE	TAPTITE, PWH, +, M2.5X4	4	
10		SUA. LOGIC BOARD		1	
11	GG71-00021A	ANTENNA-WIRE(B)		2	
12	6001-001110	SCREW-MACHINE	MACHINE, CH, +, M1.7X4.5	4	
13	GG72-00052A	BASE-LOWER		1	SNA
14	6002-000397	SCREW-TAPTITE	TAPTITE, BH, +, M2X6	4	
15	GG73-00005A	FOOT-RUBBER(A)		4	SNA
16	GG68-00200A	LABEL(R)-BASE		1	SNA

### 3-4 SP-R6100 BASE Exploded View



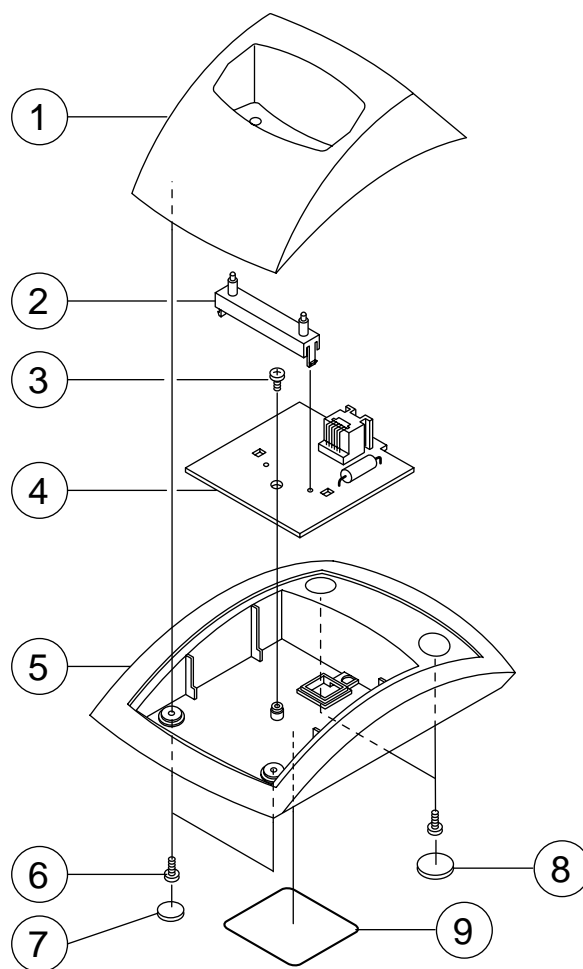
### 3-5 SP-R6100 CHARGER P/L

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Location No	Code No	Description	Specification	Q'ty	
1	GG72-00054A	CHARGER-UPPER	TAPTITE, PWH, +, 2, M2.5X4	1	SNA
2	GG75-00028A	MEC. TERMINAL(B)		1	SNA
3	6002-000352	SCREW-TAPTITE		1	SNA
4		SUA. CHG BOARD		1	SNA
5	GG72-00055A	CHARGER-LOWER	TAPTITE, B, BH, +, M2X6	1	SNA
6	6002-000397	SCREW-TAPTITE		4	SNA
7	GG73-00005A	FOOT-RUBBER(A)		2	SNA
8	GG61-40101A	FOOT-RUBBER		2	SNA
9	GG68-00201A	LABEL ID-CHARGER		1	SNA

### 3-6 SP-R6100 CHARGER Exploded View

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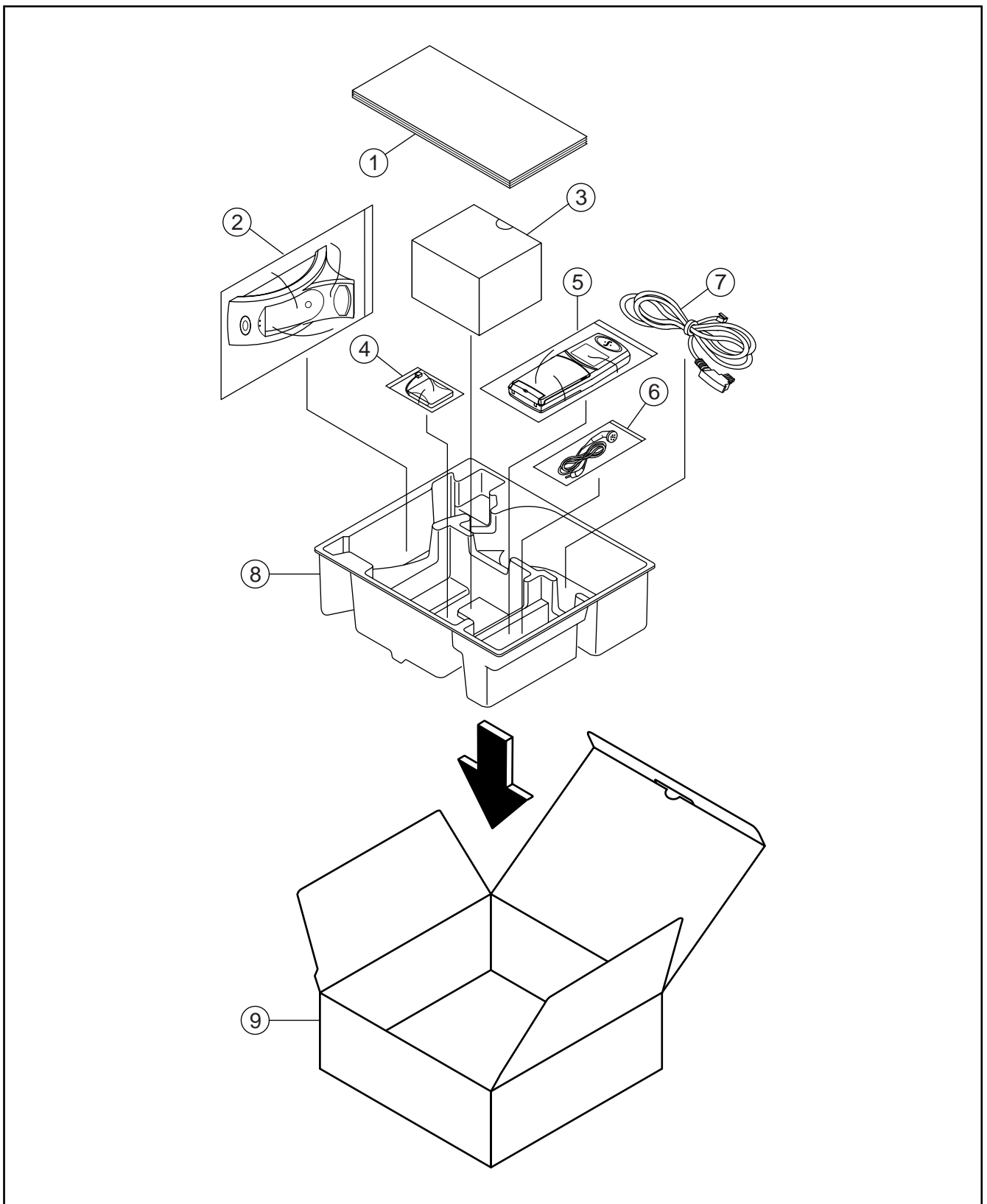
### 3-7 SP-R6100 PACKING P/L

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Location No	Code No	Description	Specification	Q'ty	
1		USERS MANUAL		1	
2	GG97-01753A	MEA BASE HOUSING		1	SNA
3	GG69-10874A	BOX-ADAPTOR		1	SNA
4		BATTERY		1	
5	GG97-01752A	MEA. H/S HOUSING		1	SNA
6		EAR MIC.		1	
7		TEL LINE		1	
8	GG69-00026A	CUSHION-CASE		1	
9	GG69-00025A	BOX-UNIT		1	SNA

### 3-8 SP-R6100 PACKING Exploded View

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## 4. Electrical Parts List

### 4-1 SP-R6100 Hand Logic Parts List

SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
0402-001075	MBR0520LT1	MOTOROLA	1	D	101	DIODE
0404-000116	BAS4004	SIEMENS	1	D	106	DIODE-SCHOTTKY
0405-001024	1SV276	TOSHIBA	2	D	505, 506	VARACTOR DIODE
0405-001054	BB833	SIEMENS	1	D	507	DIODE
0406-001012	SM12	SEMTECH	1	ZD	1	TVS-DIODE
0407-000122	SDS 7000	KANGELE	4	D	102, 103, 104, 105	SW-DIODE
0409-001001	BAR63-03W	SIEMENS	1	D	500	PIN DIODE
0409-001023	BAR81W	SIEMENS	1	D	502	PIN DIODE
0501-000457	MMBT2222A	SEC	5	Q	101, 105, 104, 108, 109	TR-NPN
0501-000462	MMBT2907A	SEC	2	Q	104, 106	TR-PNP
0501-002222	BC807-25W	SIEMENS	2	Q	500, 501	TR-PNP
0504-001010	DTA143XUA	ROHM	1	Q	504	TR-PNP
0505-001159	MGSF3454VT1	MOT	1	Q	103	TR
0801-000302	TC74HC375AF	TOSHIBA	2	U	102, 104	LATCH IC
0801-002192	TC7S04F	TSB	1	U	103	CMOS-IC
1102-001100	AT27BV020	ATMEL	1	U	105	IC-EPROM
1103-001158	AT24C32N-10SI-2.7	ATMEL	1	U	109	IC-EEPROM
1201-100153	PMB4819	SIEMENS	1	U	500	POWER AMP
1202-001022	TC75W56FU-TE12L	TSB	1	U	110	IC-VOLTAGE COMP
1203-001285	MIC5205-3. OBM5/TR	MICREL	1	U	111	IC-VOLTAGE REGULATOR
1205-001616	PMB5420	SIEMENS	1	U	501	RX IC
1205-001627	PMB5722	SIEMENS	1	U	107	BMC
1209-001226	PMB4220	SIEMENS	1	U	502	TX IC
2007-000138	RC1005J101CS	SEM	1	R	130	100, 1005
2007-000140	RC1005J102CS	SEM	10	R	104, 109, 146, 150, 151,	1K, 1005
					501, 530, 535, 539, 545	
2007-000141	RC1005J222CS	SEM	1	R	518	2.2K, 1005
2007-000143	RC1005J472CS	SEM	1	R	512	4.7K, 1005
2007-000148	RC1005J103CS	SEM	7	R	108, 112, 113, 132, 133, 149,	10K, 1005
					538	
2007-000153	RC1005J223CS	SEM	1	R	532	22K, 1005
2007-000155	RC1005J273CS	SEM	4	R	119, 137, 140, 531	27K, 1005
2007-000160	RC1005J683CS	SEM	1	R	121	68K, 1005
2007-000162	RC1005J104CS	SEM	4	R	127, 128, 152, 158	100K, 1005
2007-000163	RC1005J124CS	SEM	1	R	513	120K, 1005
2007-000164	RC1005J154CS	SEM	3	R	131, 134, 141	150K, 1005
2007-000171	RC1005J000CS	SEM	2	R	125, 156	0, 1005
2007-000172	RC1005J100CS	SEM	1	R	527	10, 1005

SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
2007-000618	RC1608J240CS	SEM	1	R	103	24, 1608
2007-000775	RC1005J333CS	SEM	1	R	601	33K, 1005
2007-000839	RC1608J390CS	SEM	2	R	101, 102	39, 1608
2007-000982	RC1005J542CS	SEM	1	R	526	5.6K, 1005
2007-001316	RC1005J821CS	SEM	3	R	534, 540, 603	820, 1005
2007-001320	RC1005J182CS	SEM	4	R	122, 123, 543, 544	1.8K, 1005
2007-001323	RC1005J302CS	SEM	1	R	136	3K, 1005
2007-001333	RC1005J183CS	SEM	2	R	135, 139	18K, 1005
2007-001335	RC1005J363CS	SEM	2	R	126, 129	36K, 1005
2007-007001	RC1005J392CS	SEM	5	R	528, 529, 533, 541, 542	3.9K, 1005
2007-007063	SR73K2ATDOR1G	KOA	1	R	120	0.1, 2012
2007-007141	RC1005J241CS	SEM	1	R	537	240, 1005
2007-007310	RK73H1ETP8201F	KOA	1	R	115	8.2K, 1005
2007-007312	RC1005J203CS	SEM	1	R	107	20K, 1005
2007-007468	RK73H1ETP1213F	KOA	1	R	117	121K, 1005
2007-007538	RK73H1ETP5602F	KOA	3	R	116, 118, 138	56K, 1005
2007-007590	RK73H1ETP8202F	KOA	1	R	106	82K, 1005
2203-000138	GRM36X7R152K50PT	MURATA	1	C	514	1.5NF, 1005
2203-000189	GRM39V5V104Z25PT	NURATA	2	C	181, 155	100NF, 1608
2203-000233	GRM36COG101J50PT	MURATA	1	C	604	100PF, 1005
2203-000254	GRM36X7R103K16PT	MURATA	25	C	114, 116, 121, 131, 136, 141,	10NF, 1005
					142, 145, 147, 157, 158,	
					161, 163, 165, 167, 168,	
					170, 172, 175, 176, 508,	
					518, 534, 560, 569	
2203-000278	GRM36COG100D50PT	MURATA	36	C	130, 132, 135, 137, 138,	10PF, 1005
					140, 156, 159, 160, 162,	
					164, 166, 169, 171, 173,	
					174, 502, 504, 512, 516,	
					523, 525, 526, 537, 565,	
					572, 573, 574, 579, 580,	
					581, 582, 595, 598, 608, 611	
2203-000359	GRM36COG151D50PT	MURATA	2	C	589, 600	150PF, 1005
2203-000386	GRM36COG150D50PT	MURATA	2	C	513, 538	15PF, 1005
2203-000425	GRM36COG180J50PT	MURATA	1	C	150	18PF, 1005
2203-000628	GRM36COG220J50PT	MURATA	1	C	571	22PF, 1005
2203-000643	GRM36COG150D50PT	MURATA	1	C	602	24PF, 1005
2203-000679	GRM36COG240J50PT	MURATA	1	C	511	27PF, 1005
2203-000696	GRM36COG020C50PT	MURATA	2	C	539, 593	2PF, 1005
2203-000714	GRM36X7R332K50PT	MURATA	2	C	133, 139	3.3NF, 1005



SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
2203-000799	GRM40X7R333K25PT	MURATA	1	C	129	33NF, 1608
2203-000870	GRM36COG030C50PT	MURATA	1	C	605	3PF, 1005
2203-000940	GRM36COG471J50PT	MURATA	2	C	180, 536	470PF, 1005
2203-001017	C1608TH1H040CT000	TDK	5	C	521, 548, 559, 563, 599	4PF, 1005
2203-001072	GRM36COG560J50PT	MURATA	1	C	543	56PF, 1005
2203-001140	GRM40X7R683K25PT	MURATA	7	C	120, 122, 125, 126, 127	68NF, 1608
					128, 152	
2203-001178	GRM36COG060D50PT	MURATA	3	C	541, 596, 597	6PF, 1005
2203-001201	GRM36COG070D50PT	MURATA	2	C	524, 527	7PF, 1005
2203-001259	GRM36COG080D50PT	MURATA	1	C	546	8PF, 1005
2203-001383	GRM36COGR5C50PT	MURATA	1	C	601	0.5PF, 1005
2203-001385	GRM36COG1R5C50PT	MURATA	1	C	592	1.5PF, 1005
2203-001405	GRM36X7R223K50PT	MURATA	1	C	535	22NF, 1005
2203-003027	06035A821JAT2A	AVX	1	C	544	820PF, 1608
2203-005056	GRM36COG6R8C50PT	MURATA	2	C	143, 149	6.8PF, 1005
2203-005061	GRM36Y5V104Z16PT	MURATA	1	C	547	100NF, 1005
2203-005065	GRM39V5V105Z10PT	MURATA	20	C	101, 102, 103, 104, 105,106	1uF, 1608
					107, 108, 109, 110, 111, 112	
					113, 134, 154, 177, 178, 179	
					182, 183	
2203-005138	GRM36X7R182K50PT	MURATA	1	C	520	1.8NF, 1005
2203-005148	GRM40X7R104K25PT	MURATA	3	C	124, 144, 148	100NF, 1608
2203-005281	GRM36COG1R5B50PT	MURATA	3	C	501, 552, 591	1.5PF, 1005
2203-005288	GRM36COG010B50PT	MURATA	2	C	528, 557	1PF, 1005
2203-005393	GRM36COG050B50PT	MURATA	1	C	562	5P, 1005
2203-005395	GRM36COG4R7B50PT	MURATA	1	C	540	4.7PF, 1005
2203-005443	GRM36COG03R3B50PT	MURATA	1	C	558	3.3PF, 1005
2203-005444	GRM36COG02R2B50PT	MURATA	2	C	550, 588	3PF, 1005
2203-005552	GRM36COG02R2B50PT	MURATA	5	C	529, 549, 553, 590, 610	2.2PF, 1005
2203-005565	GRM36COH102J25	MURATA	1	C	567	1NF, 1608
2301-001274	ECHU1C153JB5	PANASONIC	1	C	568	15NF, 3216
2404-000232	T491A475M010AS	KEMET	1	C	184	4.7uF/10V
2404-000259	T491C476M006AS	KEMET	1	C	115	47uF/6.3V, 6032
2404-001027	T491X337M006AS	KEMET	1	C	119	330uF/6.3V, 7343
2404-001032	T491B336M006AS	KEMET	2	C	123, 146	33uF/6.3V, 3528
2404-001107	595D107X0016C2T	SPRAGU	1	C	118	100uF/16V, 7132
2502-000125	TZV02Z060A110T00	MURATA	2	C	555, 564	2.5-6PF (TRIMMER)
2703-000143	MLF1608DR18KT	TDK	1	L	502	180nH, 1608
2703-000295	MLF1608DR22KT	TDK	1	L	509	220nH, 1608
2703-000373	LEM2520T680J	TAIYO	1	L	103	68uH

SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
2703-001293	LL1608-FH82NJ	TOKO	1	L	505	82nH, 1608
2703-001722	LL1005-FH18NJ	TOKO	2	L	500, 510	18NH, 1005
2703-001790	LL1005-FH3N3S	TOKO	2	L	506, 507	3.3NH, 1005
2703-001785	BDS-5445-101K	BUJEON	1	L	101	100uH
2703-001793	BDS-4532-100M	BUJEON	1	L	102	100uH
2801-003780	SQ6U10368F2EED	SAMSUNG ELE	1	X	101	X-TAL
2802-001016	B69610-H1397-B306	SIEMENS	1	Y	500	TX RESONATOR
2903-001196	B69812-N1897-L820	SIEMENS	1	X	500	BPF FILTER
2904-001158	B3911-B8104-L100	SIEMENS	1	X	501	SAW FILTER
3002-001091	PKM35-4A40	MURATA	1	PZ	1	BUZZER
3009-001031	KR-152-150W	KIRIN	1	RC	1	RECEIVER
3710-000341	AXN720535P	MATSU	1	CN	100	CONNECTOR-SOCKET(20P)
3710-001105	24-8005-002-000-867	ELCOK	1	CN	105	CONNECTOR-SOCKET
3711-000827	53014-0210	MOLEX	1	CN	101	CONNECTOR HEADER
3722-001172	HSJ1621-019011	HOSIDEN	1	CN	103	JACK-AC POWER
GG39-00006A	KJ9906-22-01	SUNGJI IND	1			CHARGER WIRE1
GG39-00007A	KJ9906-22-02	SUNGJI IND	1			CHARGER WIRE2
GG42-00001A	SS-1809	SAMBO	1	ANT	500	ANTENNA
GG43-00005A	SP-R6100	HANLIM	1	BT	1	BATTERY PACK
GH07-00008A	HLM7451-010100	HOSID	1	U	101	LCD
GH31-10004A	FN31E30T070-6	TKPRTS	1			VIBRATOR

## 4-2 SP-R6100 Base Logic Parts List

SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
0402-000318	SIZB60	PSHINDENGEN	1	BD	2	BRIDGE DIODE
0403-001047	BZX84C12	PHILIPS	2	ZD	1, 2	ZEMER DIODE
0403-001085	1SMB5927BT3	MOTOROLA	1	ZD	3	ZEMER DIODE
0404-000116	BAS40-04	SIEMENS	1	D	3	DIODE
0405-001024	1SV276	TOSHIBA	2	D	505, 506	VARACTOR DIODE
0405-001054	BB833	SIEMENS	1	D	507	DIODE
0406-001012	SM12	SEMTEC	1	ZD	4	ZENER DIODE
0409-001001	BAR63-03W	SIEMENS	1	D	500	PIN DIODE
0409-001003	BAR64-05	SIEMENS	1	D	503	PIN DIODE
0409-001005	BAR80	SIEMENS	1	D	502	DUAL PIN DIODE
0501-000457	MMBT2222A	SEC	3	Q	2, 3, 5	TR-NPN
0501-000481	MMBTA92	SEM	1	Q	14	TR
0501-000526	2SD999-CK	NEC	1	Q	9	TR
0501-002222	BC807-25W	SIEMENS	2	Q	500, 501	TR-PNP
0502-000479	2SB798	NEC	2	Q	10, 11	TR
0502-001034	KSH350TM	SEC	1	Q	1	TR
0502-001053	MMSTA06	ROHM	1	Q	7	TR
0504-001010	DTA143XUA	ROHM	1	Q	504	TR-NPN
0601-000274	CL-170YG-CD	CITIZEN	2	LED	1, 2	CHIP LED
0604-000138	PC357N4T	SHARP	1	U	7	PHOTO COUPLER
1103-001023	AT24C08N-10SI-2.7	MICROCHIP	1	U	10	EEPROM
1201-001408	PMB4820	SIEMENS	1	U	500	POWER IC
1203-000422	M5237ML-600D	MITSUBISHI	1	U	9	REGULATOR
1205-001616	PMB5420	SIEMENS	1	U	501	RX IC
1205-001628	PMB5725	SIEMENS	1	U	5	BMC
1209-001226	PMB4220	SIEMENS	1	U	502	TX IC
2003-000228	MOR1W, 22, J, TB	ABCO	1	R	77	R-METAL OXIDE
2007-000070	RC1608J000CS	SEM	10	R	1, 3, 4, 5, 6, 7, 8, 13, 14, 123	0, 1608
2007-000102	RC1608J104CS	SEM	1	R	9	100K, 1608
2007-000109	RC1608J105CS	SEM	1	R	74	1M, 1608
2007-000121	RC1608J821CS	SEM	1	R	62	820, 1608
2007-000139	RC1005J221CS	SEM	2	R	75, 104	220, 1005
2007-000140	RC1005J102CS	SEM	3	R	504, 535, 545	1K, 1005
2007-000141	RC1005J222CS	SEM	1	R	518	2.2K, 1005
2007-000142	RC1005J272CS	SEM	1	R	505	2.7K, 1005
2007-000143	RC1005J472CS	SEM	3	R	30, 94, 512	4.7K, 1005
2007-000148	RC1005J103CS	SEM	9	R	18, 21, 22, 23, 25, 26, 51	10K, 1005
					538, 539	
2007-000151	RC1005J153CS	SEM	4	R	34, 46, 96, 101	15K, 1005
2007-000153	RC1005J223CS	SEM	2	R	102, 532	22K, 1005

SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
2007-000155	RC1005J273CS	SEM	2	R	82, 531	27K, 1005
2007-000159	RC1005J563CS	SEM	2	R	33, 100	56K, 1005
2007-000162	RC1005J104CS	SEM	3	R	44, 45, 47	100K, 1005
2007-000163	RC1005J124CS	SEM	1	R	513	120K, 1005
2007-000171	RC1005J000CS	SEM	6	R	16, 52, 68, 71, 97, 98	0, 1005
2007-000172	RC1005J100CS	SEM	1	R	527	10, 1005
2007-000775	RC1005J333CS	SEM	1	R	601	33K, 1005
2007-000840	RC3216J390CS	SEM	2	R	84, 85	39, 1/8W
2007-000982	RC1005J562CS	SEM	2	R	59, 526	5.6K, 1005
2007-001134	RC1608J680CS	SEM	2	R	76, 124	68, 1608
2007-001301	RC1005J680CS	SEM	1	R	49	68, 1005
2007-001308	RC1005J201CS	SEM	1	R	103	200, 1005
2007-001313	RC1005J331CS	SEM	3	R	87, 88, 89	330, 1005
2007-001316	RC1005J821CS	SEM	1	R	540	820, 1005
2007-001320	RC1005J182CS	SEM	4	R	42, 43, 543, 544	1.8K, 1005
2007-001323	RC1005J302CS	SEM	2	R	500, 501	3K, 1005
2007-001329	RC1005J752CS	SEM	1	R	99	7.5K, 1005
2007-001333	RC1005J183CS	SEM	3	R	80, 81, 530	18K, 1005
2007-003013	RC1005J242CS	SEM	1	R	65	2.4K, 1005
2007-007001	RC1005J392CS	SEM	6	R	64, 528, 529, 533, 541, 542	3.9K, 1005
2007-007013	RC1005J912CS	SEM	1	R	86	9.1K, 1005
2007-007101	RC1005J433CS	SEM	1	R	79	43K, 1005
2007-007141	RC1005J241CS	SEM	2	R	502, 537	240, 1005
2203-000204	GRM40X7R104K25PT	MURATA	1	R	69	100NF, 2012
2203-000233	GRM36COG101J50PT	MURATA	1	C	604	100PF, 1005
2203-000254	GRM36X7R103K16PT	MURATA	22	C	1, 2, 3, 5, 7, 8, 10, 11, 12,	10NF, 1005
					13, 14, 15, 16, 17, 18, 19,	
					20, 508, 514, 518, 560, 569	
2203-000278	GRM36COG100D50PT	MURATA	32	C	9, 76, 77, 79, 80, 81, 82, 84,	10PF, 1005
					502, 504, 506, 512, 516,	
					521, 523, 525, 526, 537,	
					540, 565, 572, 574, 576,	
					579, 580, 581, 582, 598,	
					599, 608, 611, 617	
2203-000311	GRM36COG121J50PT	MURATA	1	C	33	120PF, 1005
2203-000359	GRM36COG151J50PT	MURATA	2	C	589, 600	150PF, 1005
2203-000386	GRM36COG150J50PT	MURATA	8	C	513, 538, 595, 615, 616	15PF, 1005
					618, 621, 622	
2203-000438	GRM36X7R102K50PT	MURATA	2	C	37, 38	1NF, 1005

SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
2203-000455	GRM40COG102J50PT	MURATA	2	C	35, 36	1NF, 2012
2203-000489	GR36X7R222K50PT	MURATA	1	C	30	2.2NF, 1005
2203-000550	GR36COG200J50PT	MURATA	1	C	42	20PF, 1005
2203-000628	GR36COG220J50PT	MURATA	1	C	571	22PF, 1005
2203-000643	GRM36COG240J50PT	MURATA	1	C	602	24PF, 1005
2203-000654	GRM36X7R271K80PT	MURATA	2	C	31, 32	270PF, 1005
2203-000696	GRM36COG20C50PT	MURATA	1	C	593	2PF, 1005
2203-000751	GRM40V5V334Z16PT	MURATA	2	C	40, 68	330NF, 2012
2203-000870	GRM36COG030C50PT	MURATA	1	C	605	3PF, 1005
2203-000885	GRM36X7R472K25PT	MURATA	1	C	63	4.7NF, 1005
2203-000940	GRM36X7R471K50PT	MURATA	1	C	536	470PF, 1005
2203-001017	C1608TH1H040CT000	TDK	6	C	503, 507, 511, 548, 562, 594	4PF, 1005
2203-001072	GRM36COG560J50PT	MURATA	1	C	543	56PF, 1005
2203-001103	CL10B682KBNC	SEM	1	C	59	6.8NF, 1608
2203-001142	GRM40X7R683K25PT	MURATA	3	C	24, 25, 26	68NF, 2012
2203-001178	GRM36COG060D50PT	MURATA	3	C	541, 596, 597	6PF, 1005
2203-001201	GRM36COG070D50PT	MURATA	2	C	524, 527	7PF, 1005
2203-001210	GRM36X7R822K50PT	MURATA	1	C	534	8.2NF, 1005
2203-001259	GRM36COG080D50PT	MURATA	1	C	546	8PF, 1005
2203-001383	GRM36COGR5C50PT	MURATA	2	C	29, 601	0.5PF, 1005
2203-001385	GRM36COG1R5C50PT	MURATA	1	C	592	1.5PF, 1005
2203-001405	GRM36V5V223Z25PT	MURATA	3	C	34, 62, 535	22NF, 1005
2203-001416	GRM36V5V333K16PT	MURATA	1	C	66	33NF, 1005
2203-003027	06035A821JAT2A	AVX	1	C	544	820PF, 1608(COH)
2203-005061	GRM36Y5V104Z16PT	MURATA	8	C	6, 53, 54, 57, 58, 71, 75, 547	100NF, 1005
2203-005138	GRM36X7R182K50PT	MURATA	1	C	520	1.8NF, 1005
2203-005281	GRM36COG1R5B50PT	MURATA	3	C	549, 552, 591	1.5PF, 1005(B)
2203-005288	GRM36COG010B50PT	MURATA	2	C	557, 619	1PF, 1005(B)
2203-005443	GRM36COG03R3B50PT	MURATA	3	C	558, 559, 610	3.3PF, 1005(B)
2203-005444	GRM36COG030B50PT	MURATA	2	C	550, 563	3PF, 1005(B)
2203-005446	GRM36COG2R7B50PT	MURATA	3	C	529, 539, 590	2.7PF, 1005(B)
2203-005552	GRM36COG2R2B50PT	MURATA	3	C	501, 553, 588	2.2PF, 1005(B)
2203-005565	GRM36COH102J25	MURATA	1	C	567	1NF, 1608(COH)
2301-001274	ECHU1C153JB5	PANASONIC	1	C	568	15NF, 3216
2305-000583	MMD474K250V	SHIN	1	C	60	470NF, 250V
2404-000120	TCSCS1A106MBAR	SEM	1	C	61	10UF/10V
2404-000253	TCSCS1C476KDAR	SEM	4	C	22, 64, 83, 620	47UF/16V
2502-000125	TZV02Z060A110TOO	MURATA	2	C	555, 564	2.5-6PF, 25V
2703-000144	MLF2012DR18KT	TDK	1	L	502	180NH, 2012
2703-000266	MLF2012DR22KT	TDK	1	L	509	220NH, 2012

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SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
2703-000373	LEM2520T-680J	TAIYO	2	L	1, 2	68uH
2703-001292	LL2012-FH82NJ	TOKO	1	L	505	82NH, 2012
2703-001722	LL1005-FH18NJ	TOKO	2	L	500, 510	18NH, 1005
2703-001790	LL1005-FH3N3S	TOKO	2	L	506, 507	3.3NH, 1005
2801-003780	SQ6U10368F2EED	SAMSUNG ELE	1	OSC	20	X-TAL(SMD)
2802-001016	B69610-H1397-B306	SIEMENS	1	Y	500	TX RESONATOR
2903-001196	B69812-N1897-L820	SIEMENS	1	X	500	BPF FILTER
2904-001158	B3911-B8104-L100	SIEMENS	1	X	501	SAW FILTER
3722-001239	100860-1	AMP	2	CN	1, 2	MODULAR JACK
4715-000127	DSS-301L-A22R	MITSUBISH	1	MIS	1	ARRESTER

### 4-3 SP-R6100 KEY Part List

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SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
1009-001006	A3210ELH	ALLEG	1	U	1	IC-HALL EFFECT S/W
2007-000102	RC1608J104CS	SEM	1	R	1	100K, 1608
2203-000189	GRM39V5V104Z25PT	MURATA	1	C	1	100NF, 1608
2203-000440	CL10B102KBNC	SEM	1	C	2	1NF, 1608
3003-001044	CMS-2745C	BOSUNG	1	MC	1	MIC
3711-004395	AXN820535	NAIS	1	CN	1	KEY-HEADER
GG59-00001A	HUW9507-010030	HOSIDEN	1	KEY	1	SIDE-KEY

### 4-4 CHARGER Part List

---

SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
2203-000228	MOR1W, 22, J, TB	ABCO	1	R	1	22Ω/1W
3722-001239	100860-1	AMP	1	CN	1	MODULAR JACK

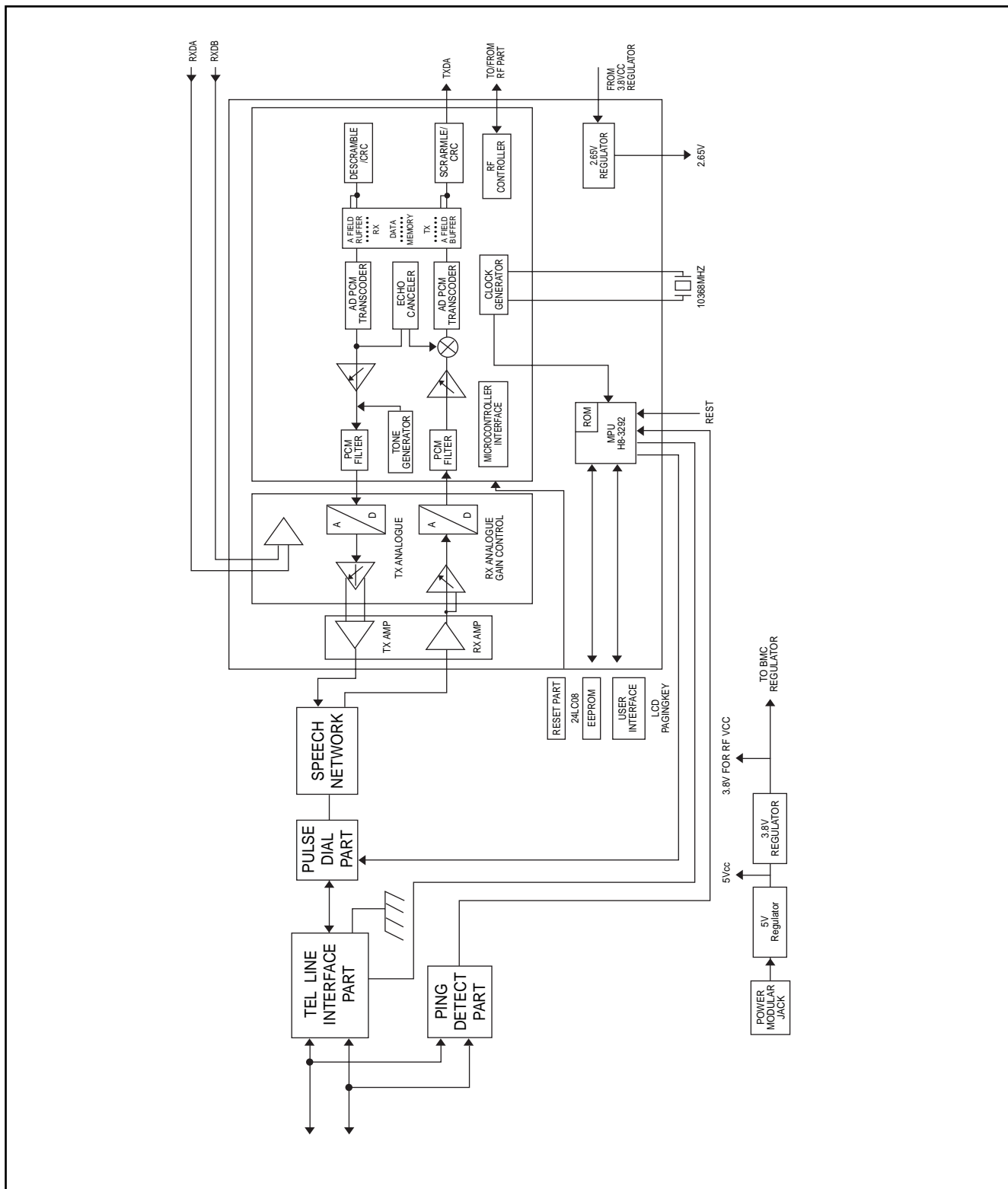
### 4-5 PCB Array

---

SEC CODE	VENDOR CODE	VENDOR	Q'T	SYM	REFERENCE	DESCRIPTION
GG92-00988A	SP-R61000	GIJU IND	1			HAND LOGIC PCB
GG92-00989A	SP-R61000	GIJU IND	1			BASE LOGIC PCB
SNA	SP-R61000	GIJU IND	1			CHARGER PCB
GG92-00995A	SP-R61000	GIJU IND	1			KEY PCB

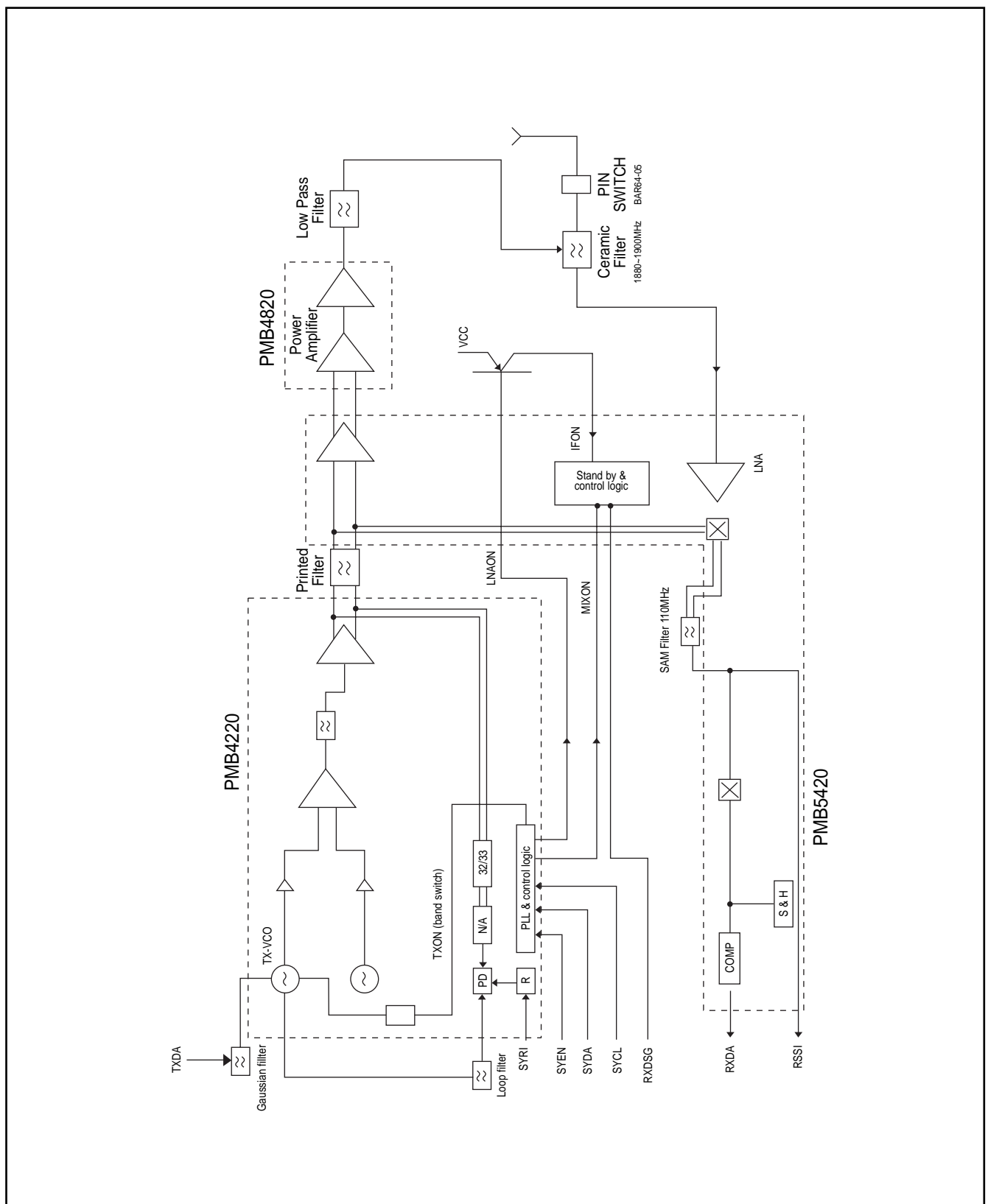
## 5. Block Diagram

### 5-1 SP-R6100 Base Logic Block Diagram

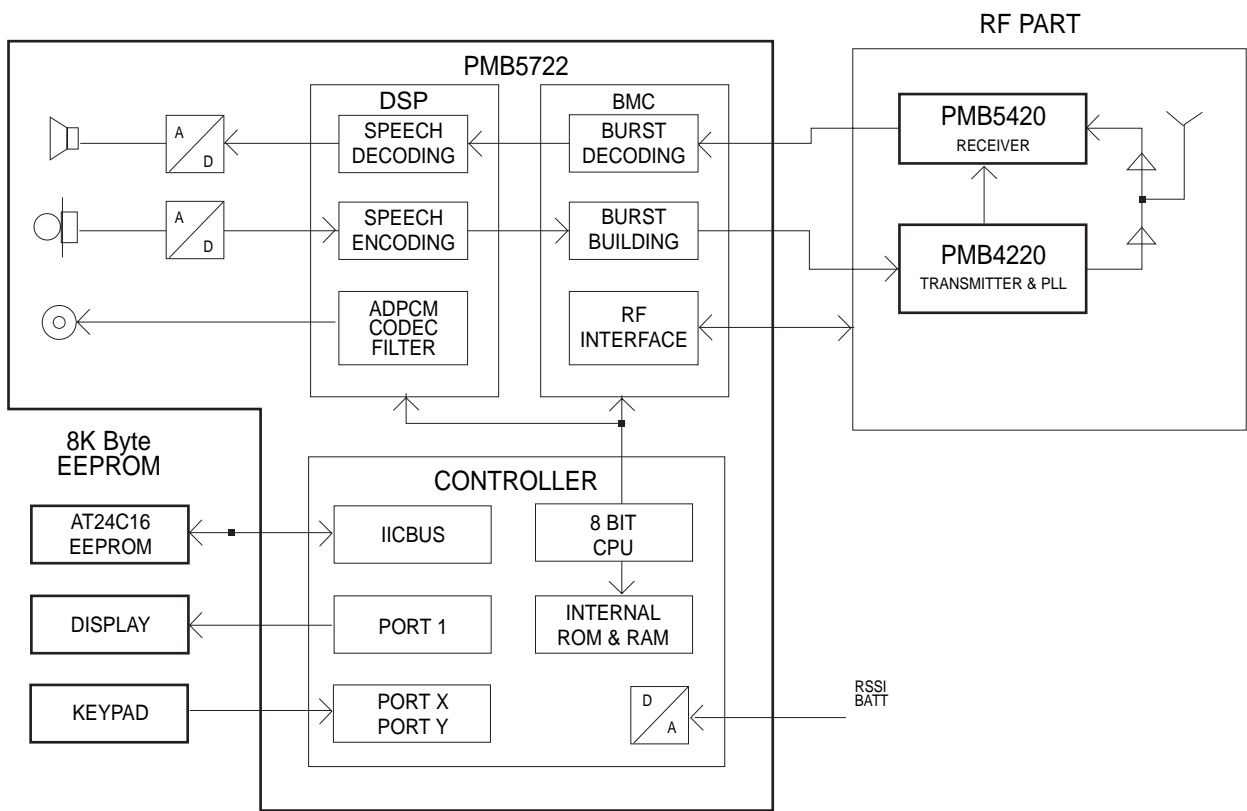




## 5-2 SP-R6100 RF Block Diagram

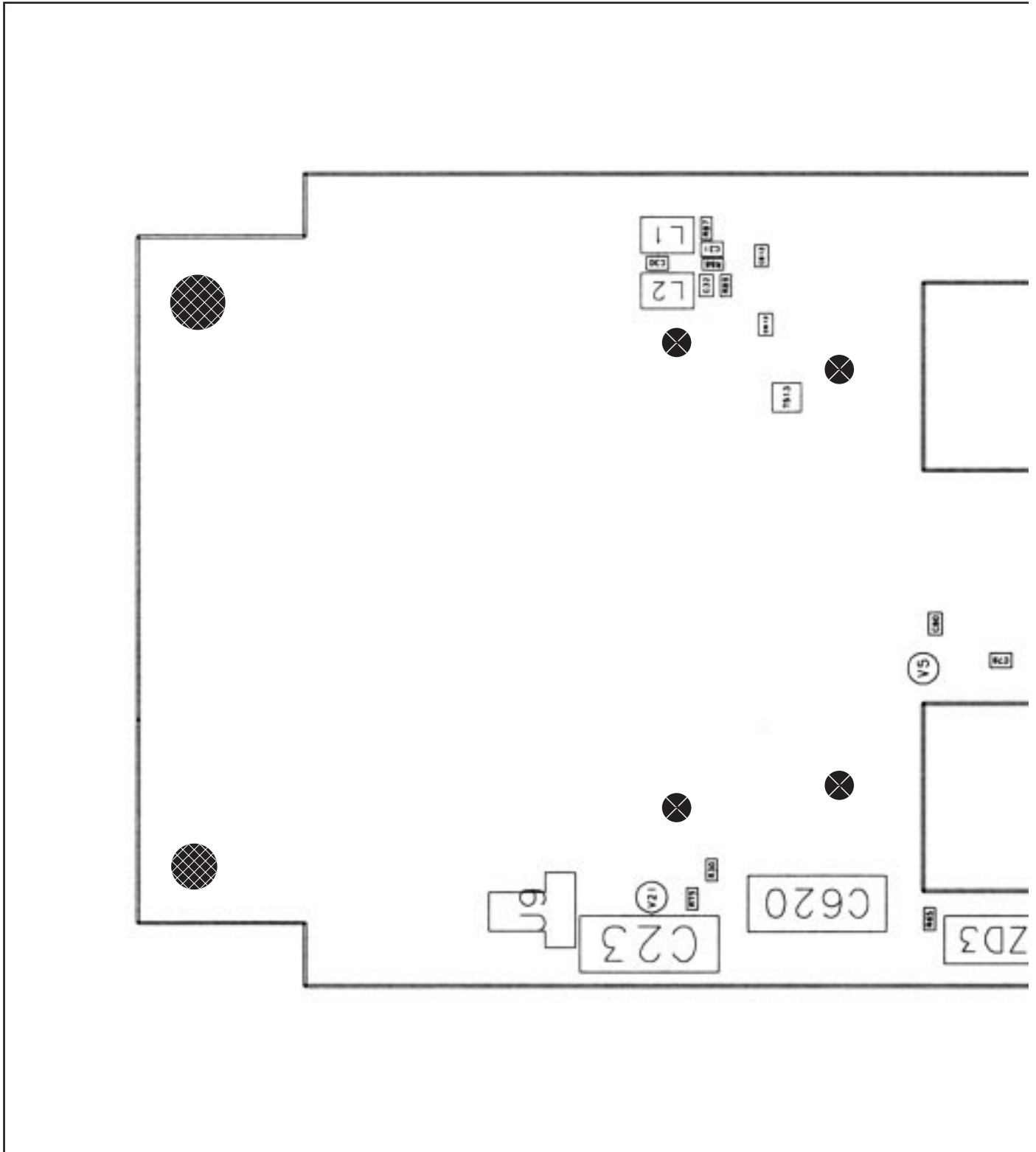


5-3 SP-R6100 Hand Block Diagram



## 6. PCB Diagrams

### 6-1 SP-R6100 Base PCB (I)

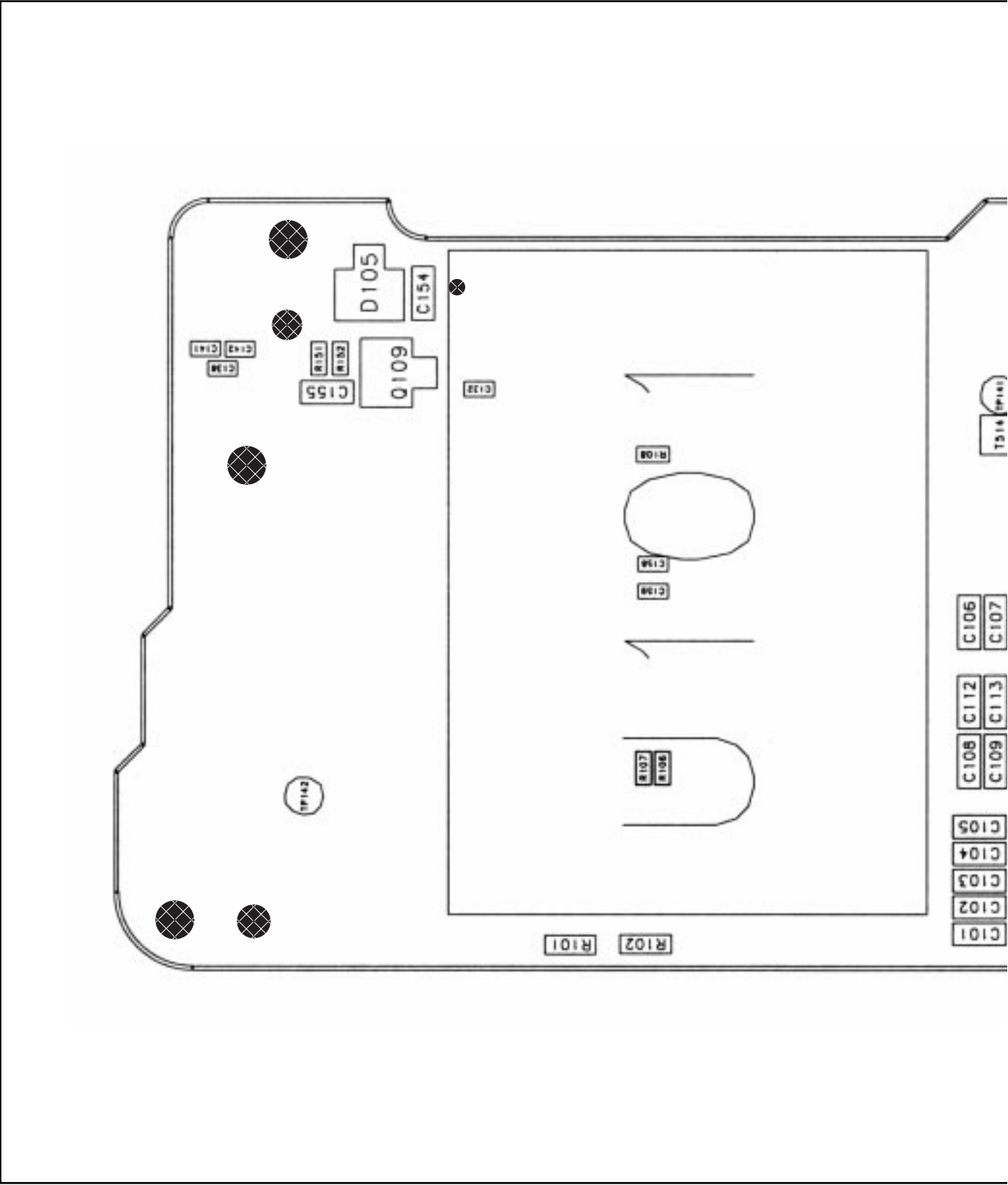




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6-3 SP-R6100 Handy PCB (I)

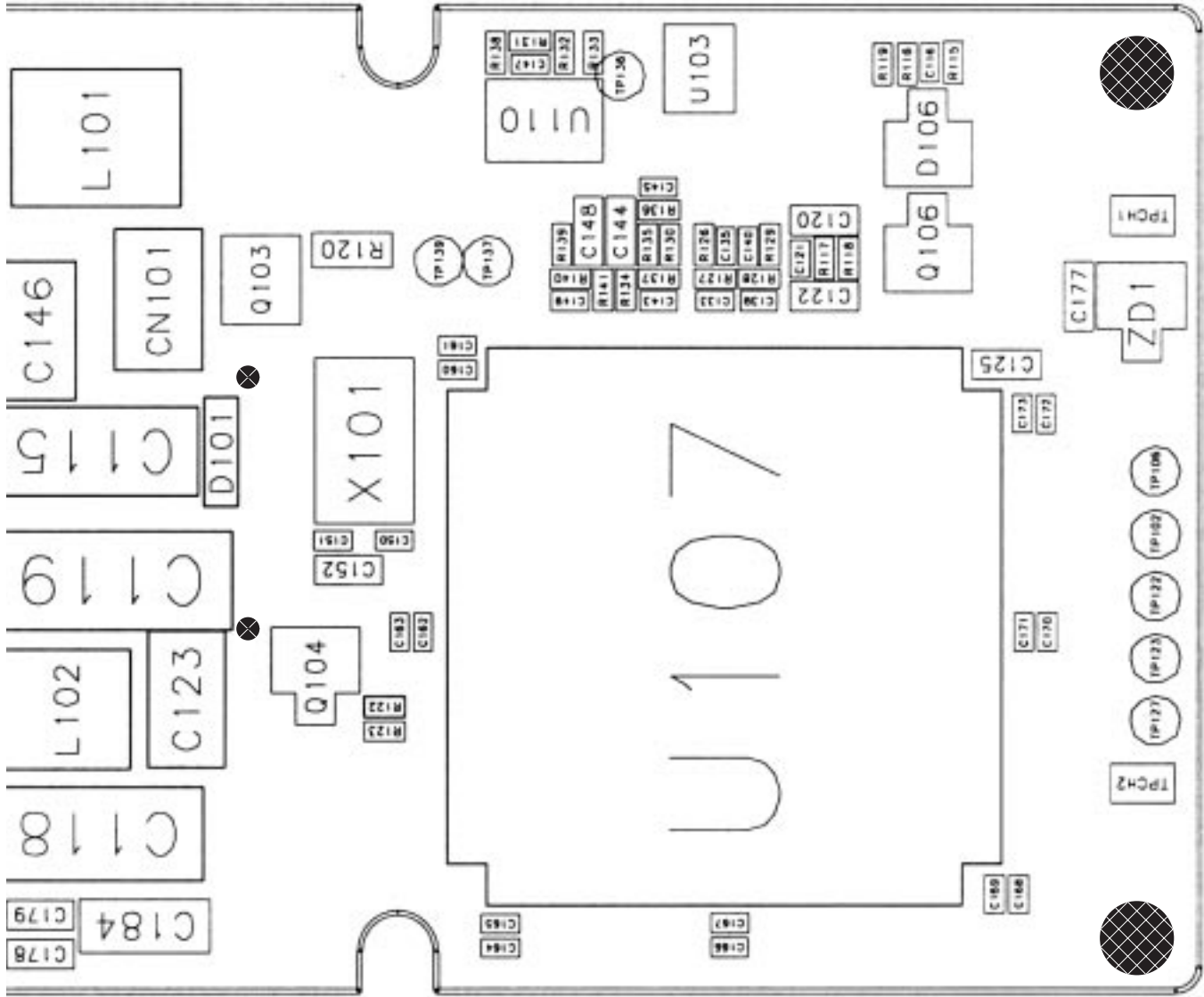




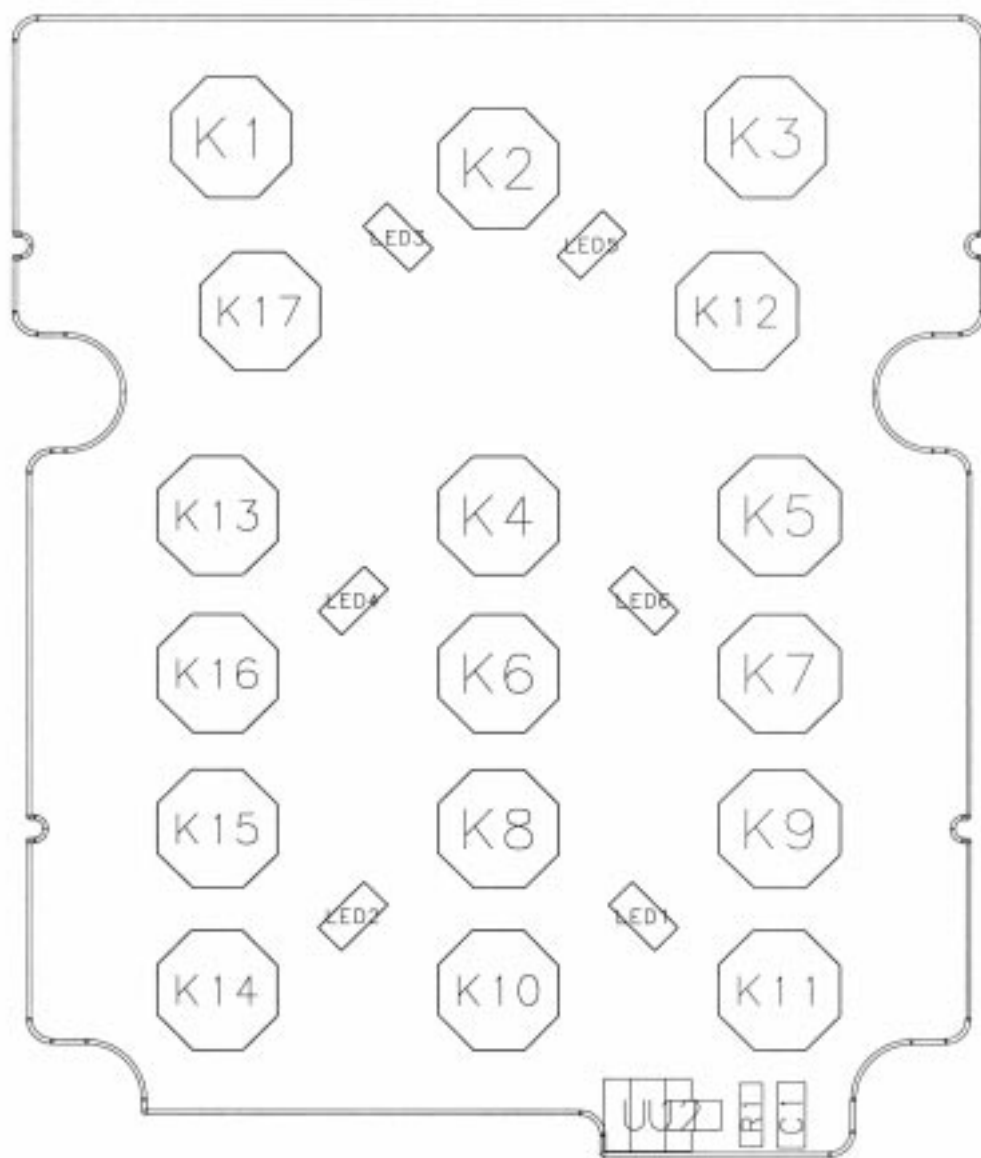


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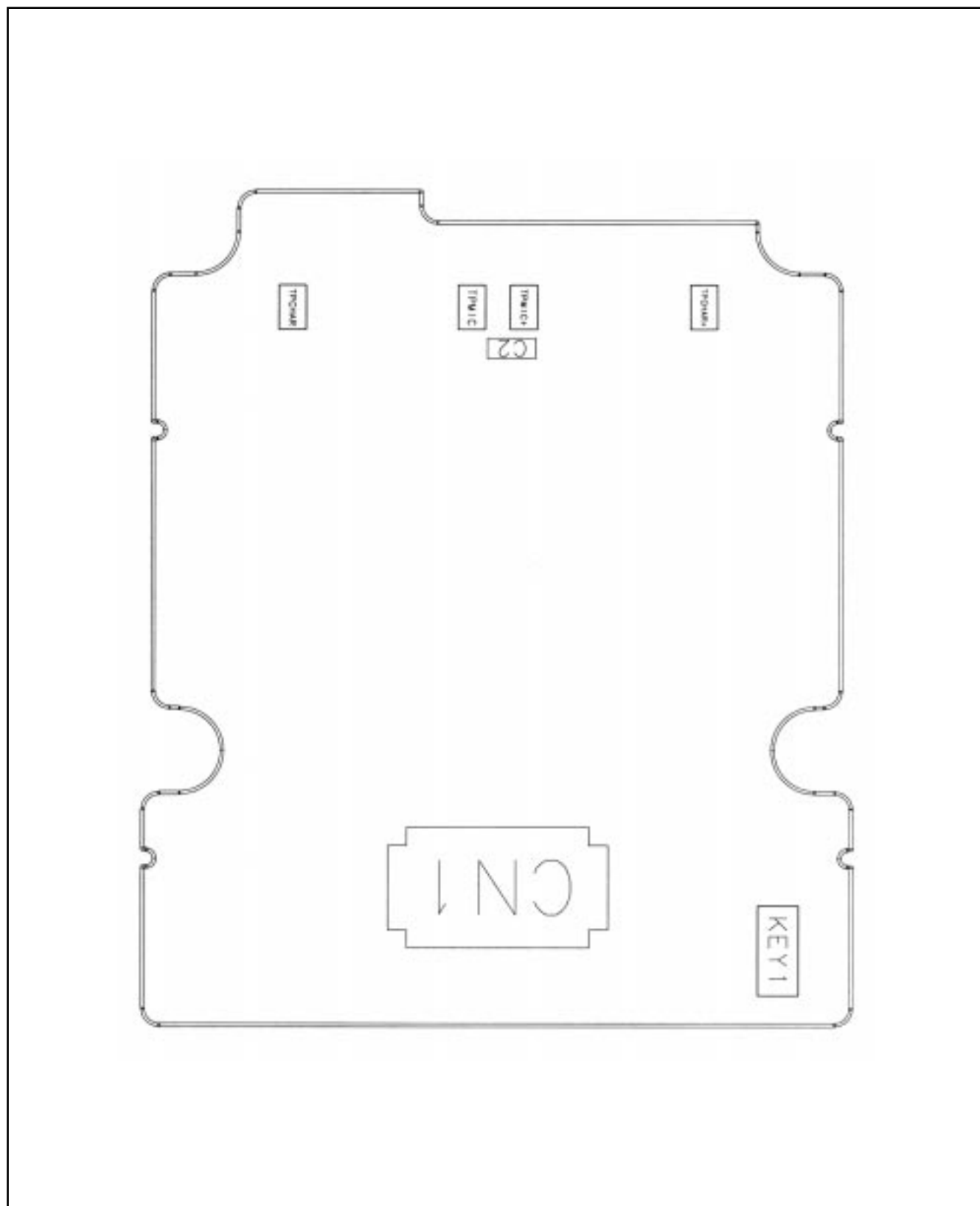


## 6-5 SP-R6100 Key PCB (I)



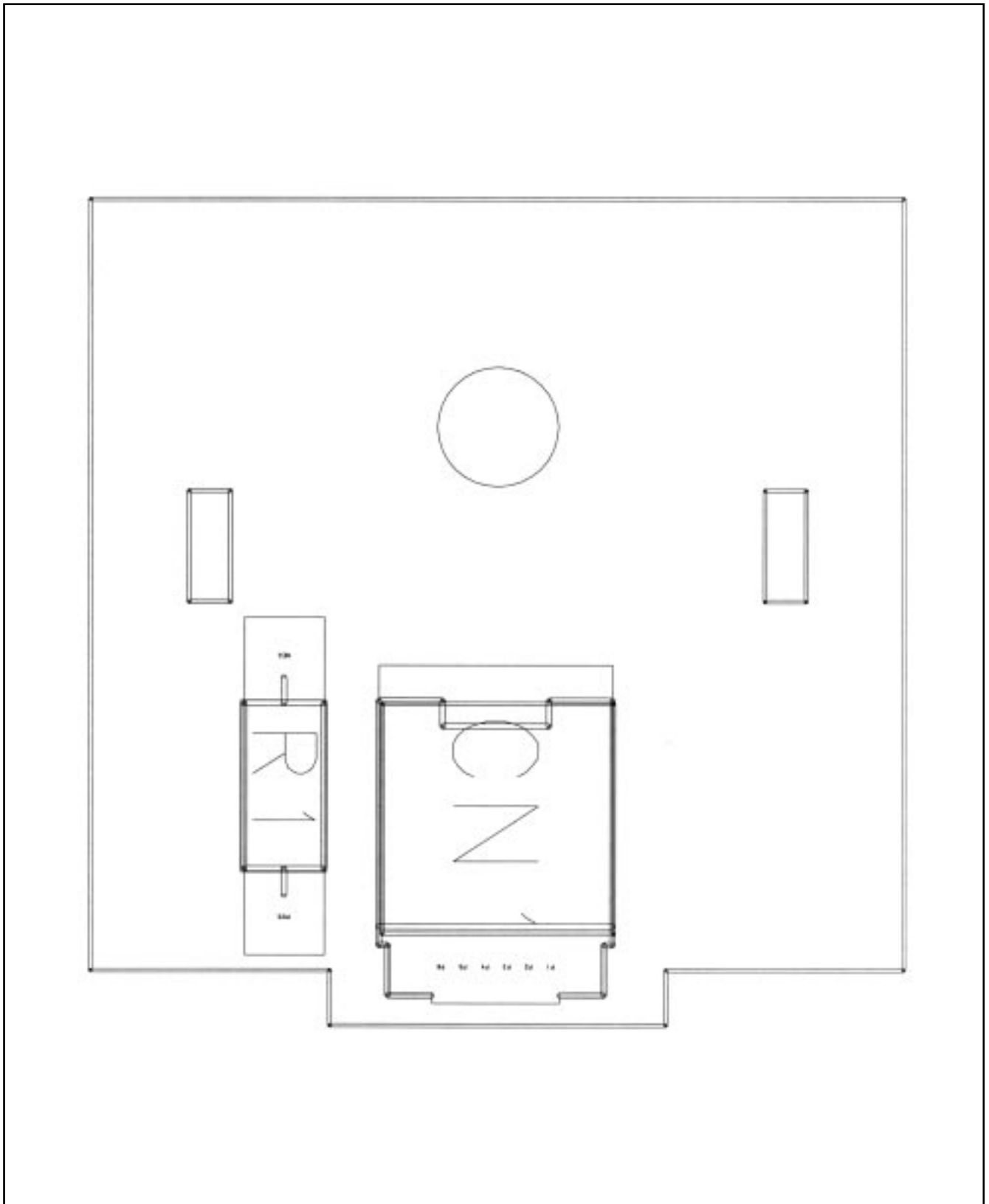
## 6-6 SP-R6100 Key PCB (II)

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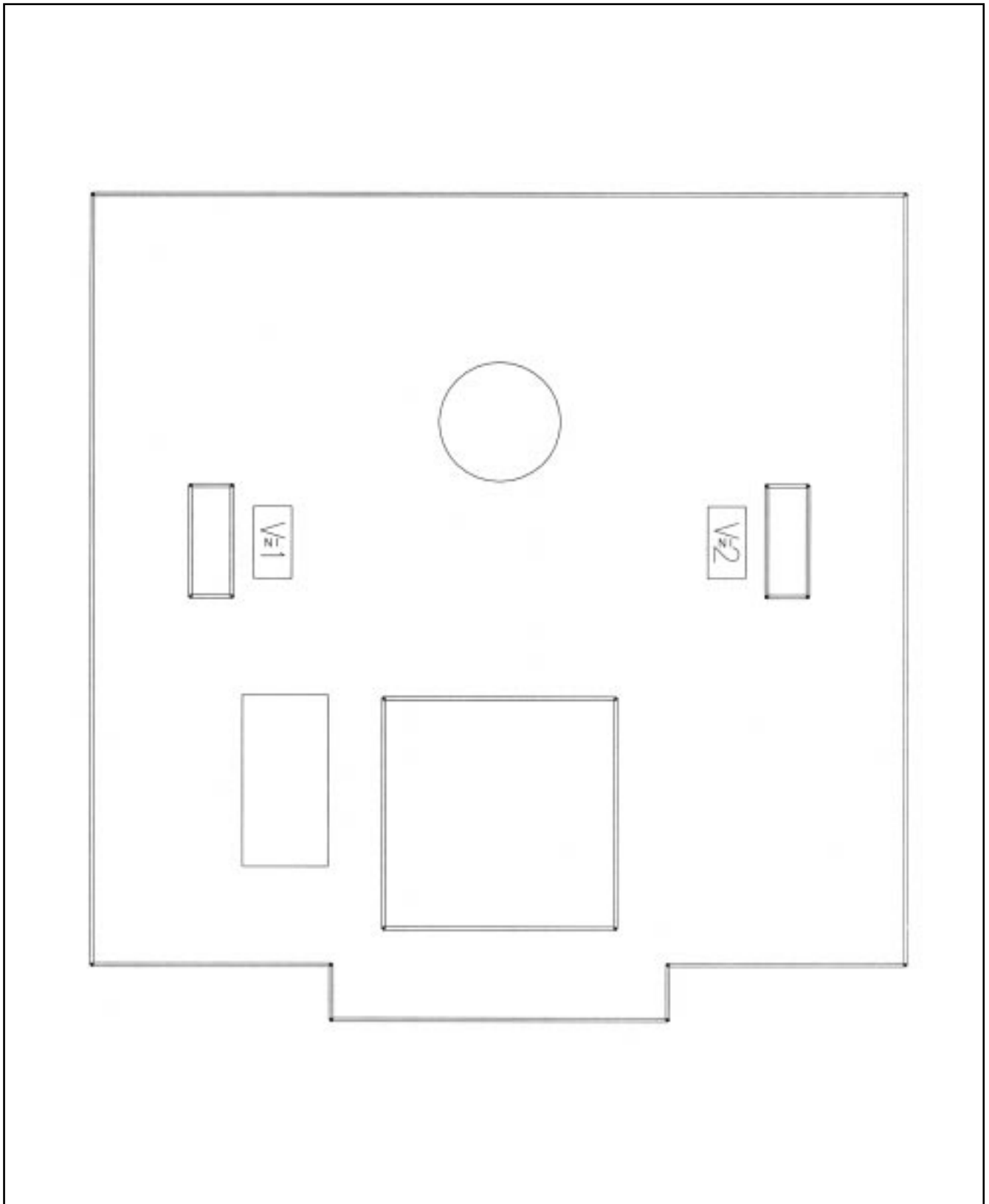
## 6-7 SP-R6100 Charger PCB (I)

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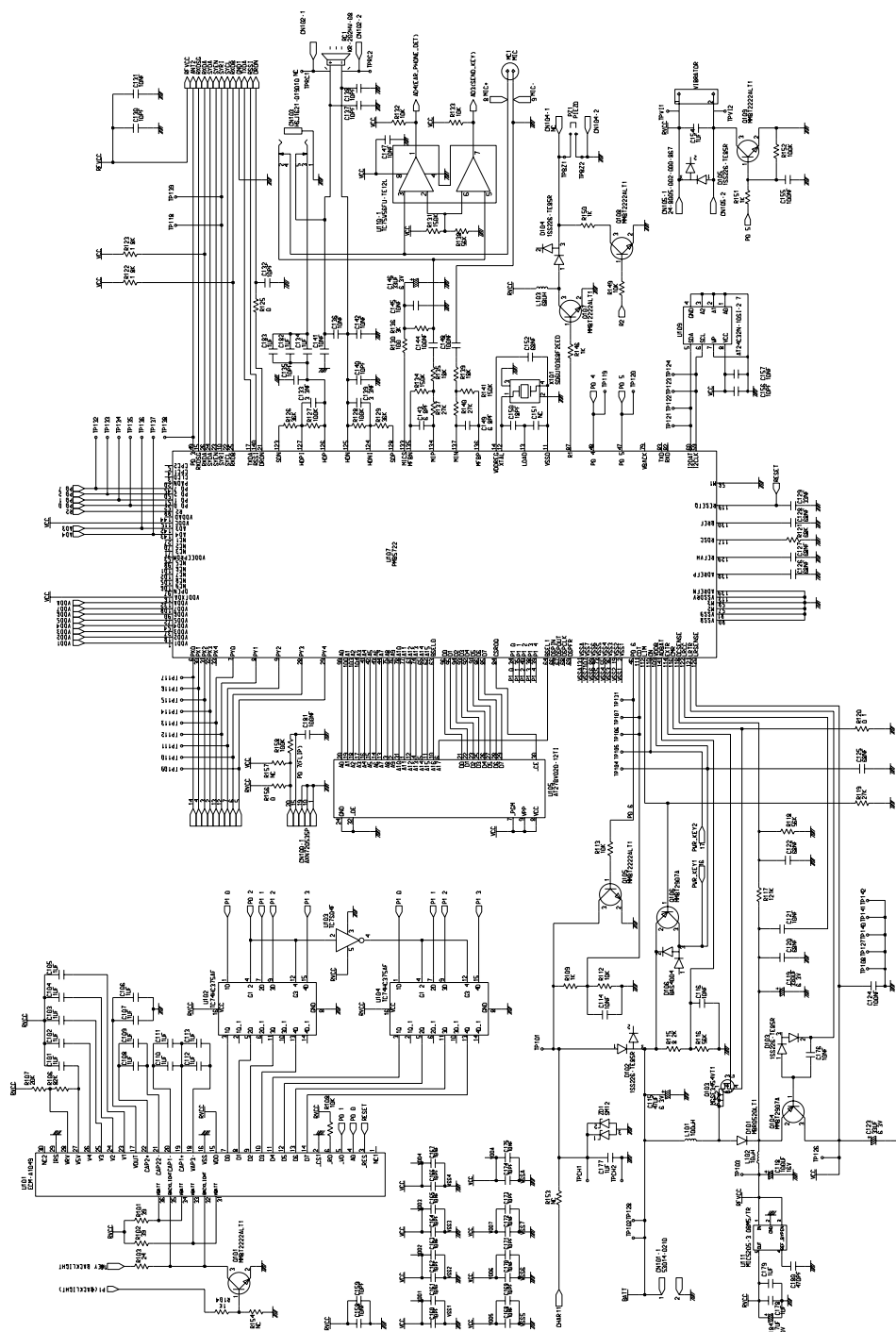


## 6-8 SP-R6100 Charger PCB (II)

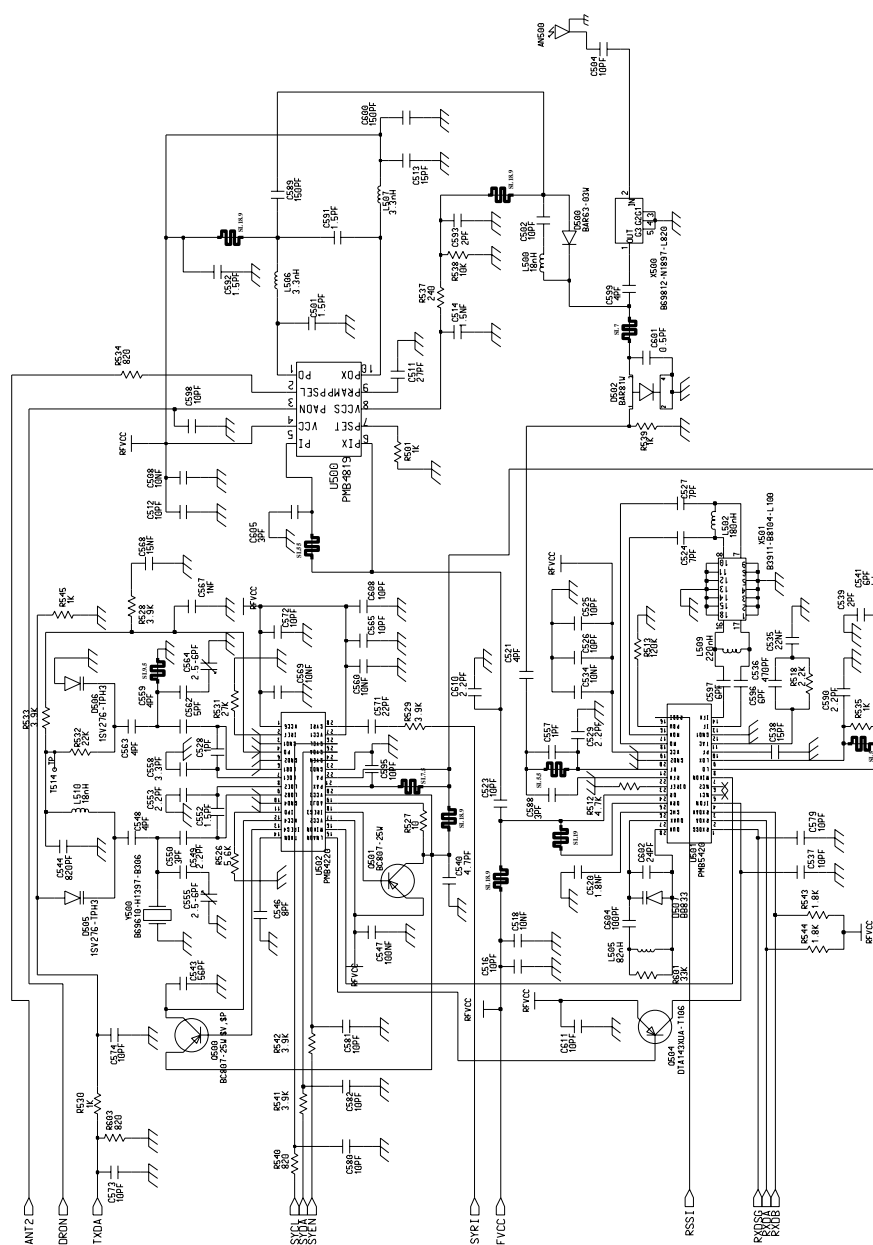
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## 7-1 SP-R6100 Hand LOGIC

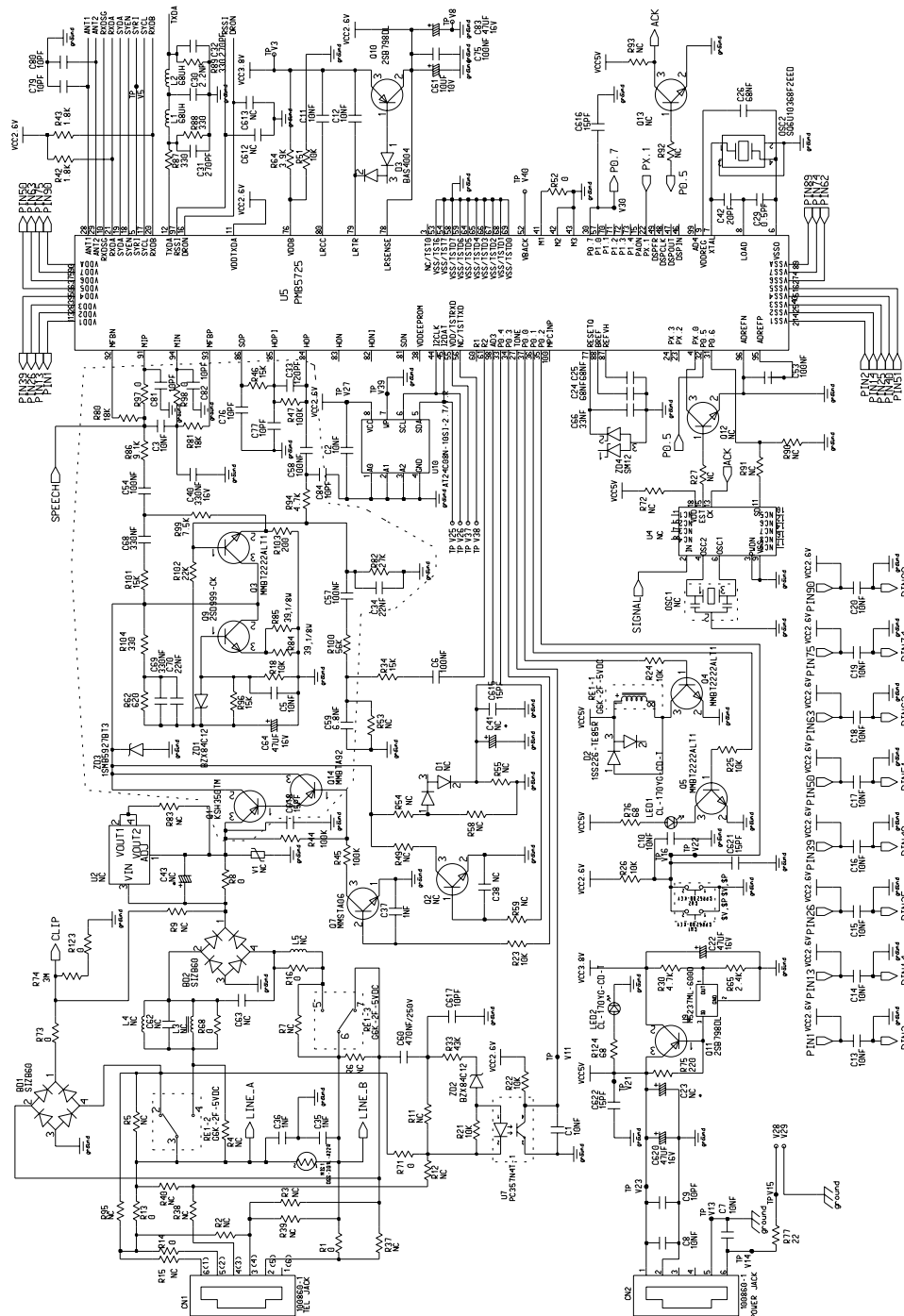


## Schematic Diagrams

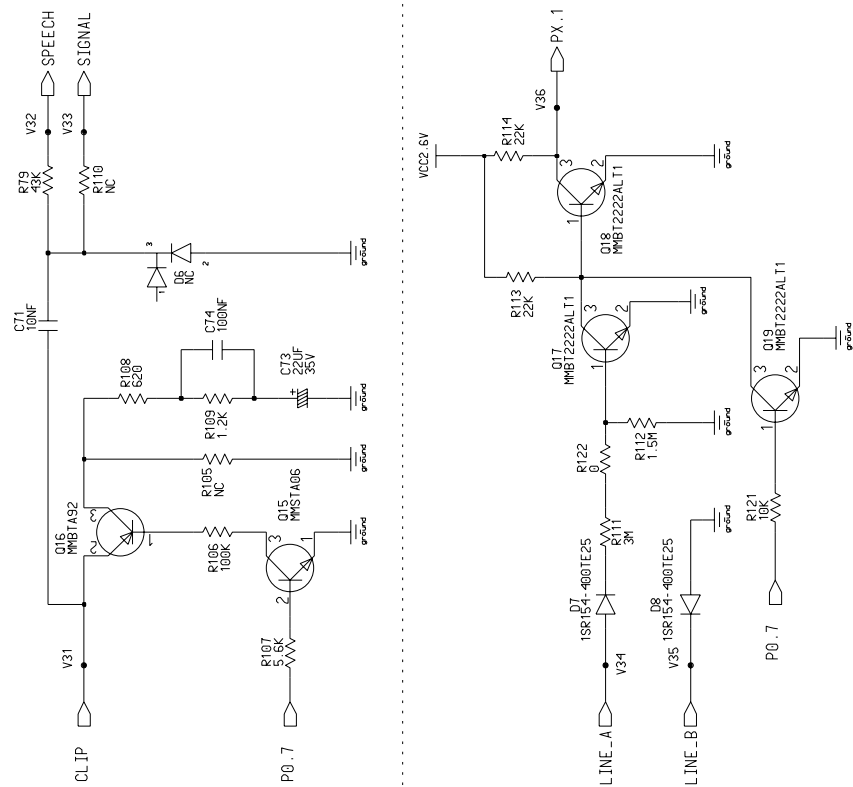




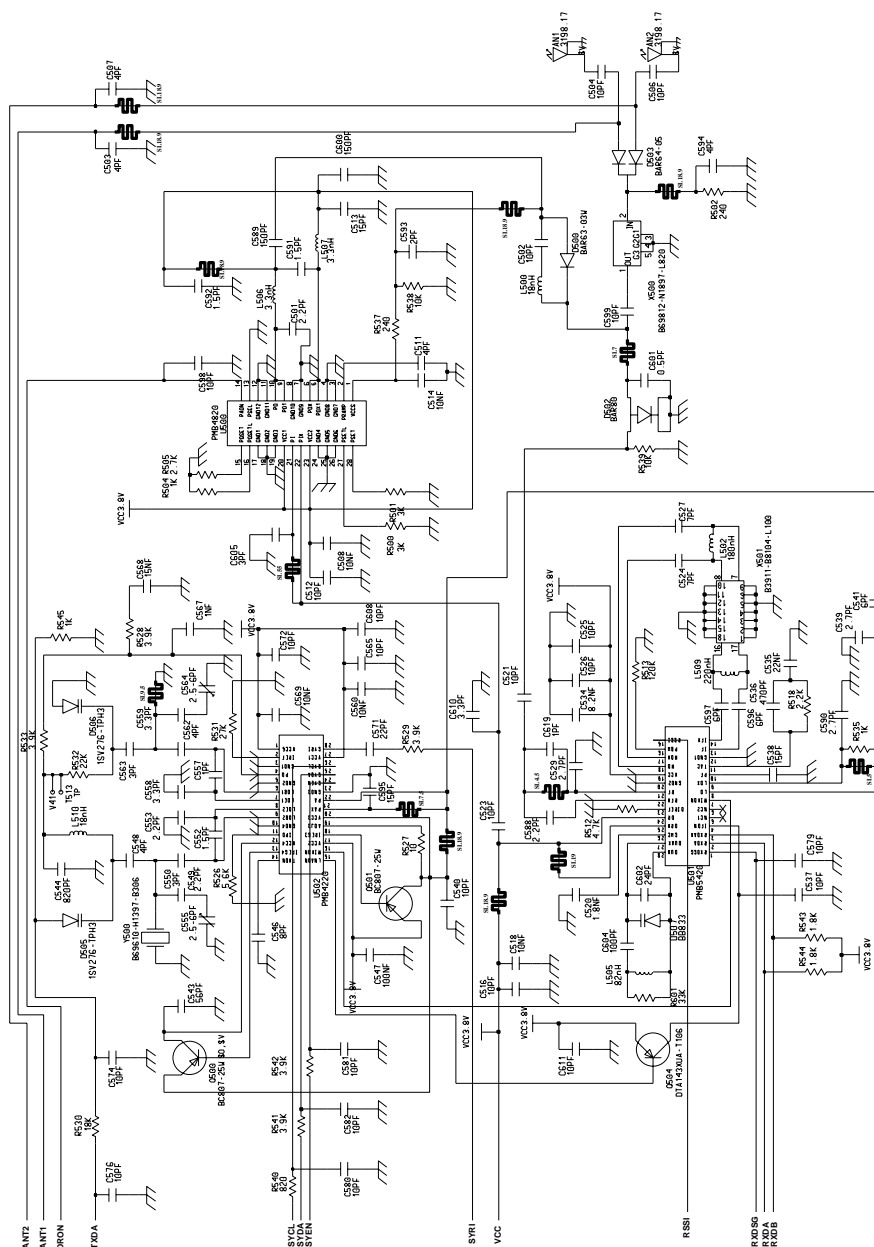
## 7-3 SP-R6100 BASE LOGIC



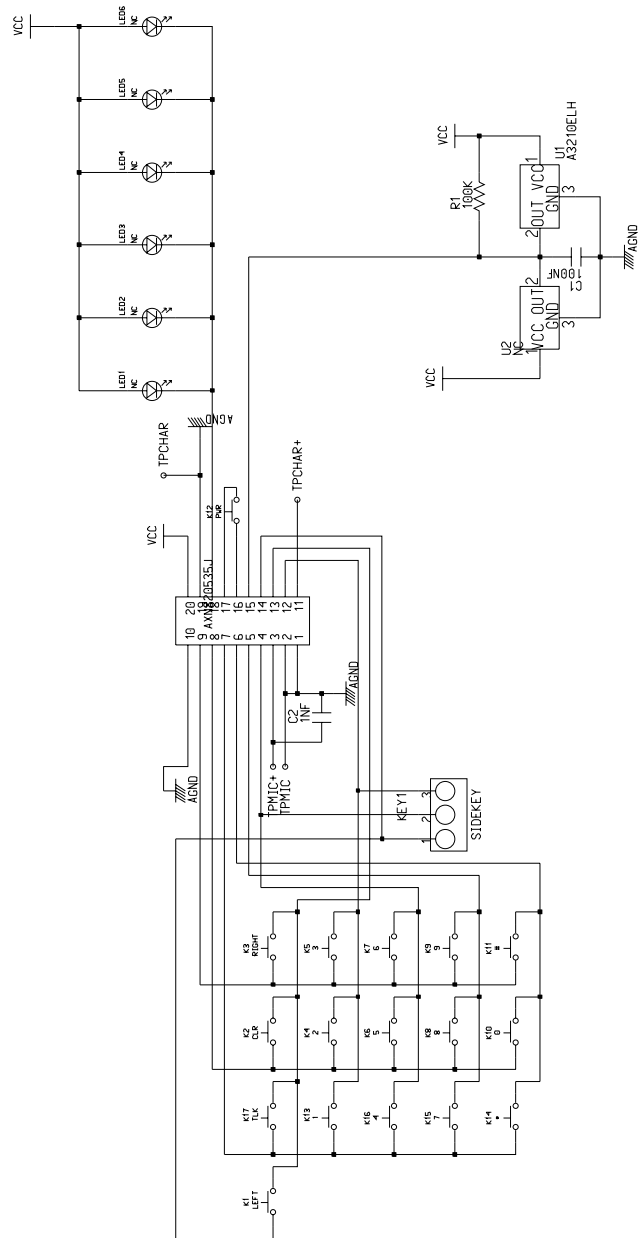
## 7-4 SP-R6100 Base CLIP



7-5

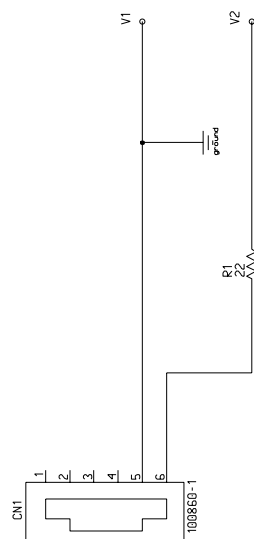


## 7-6 HAND KEY



7-7 CHARGER

---



## 8. Usage of Jig Program

---

### EXPLANATION OF JIG PROGRAM

---

#### 1. FIRST SCREEN

--- SET SELECTION ---  
Initial Port is COM 1  
Select a Board to Test::  
0) Basetest  
1) Handset

You can choose test set by UP/DOWN key or 1/2 Number.

1) Basetest - Basetest Test

2) Handset - Handset Test

Initial Default Port is COM 1.

If you want to Exit, Touch the Esc key.

#### 2. SECOND SCREEN

when you choose basetest in SET SELECTION.

--- SELECT VERSION ---  
0 : BASE MASK 5200F-ALL 1  
1 : BASE MASK 6100F  
Press the number (0/1) and then Press the Enter key.  
=>

When you choose handset in SET SELECTION.

--- SELECT VERSION ---  
0 : SP-R5200 HAND  
1 : SP-R6100 HAND  
Press the number (0/1) and then Press the Enter key.  
=>

#### 3. THIRD SCREEN

--- NATION SELECTION ---  
  
0) U.K.(Emergency)  
1) U.K.(No Emergency)  
2) FRANCE  
3) GERMANY  
4) SPAIN  
5) ITALY  
6) NETHERLANDS  
7) SWEDEN  
8) NORWAY  
9) GREECE  
A) PORTUGAL  
B) AUSTRIA

Select the Number of nation?  
And then touch ENTER key.  
=>

You can choose nation by 0~B key Number and then press ENTER key.

#### 4. MAIN SCREEN (In case of HAND set)

```
*****
*                               SR-R6100(DECT) HANDSET (UK)                               *
*****
*                               EEPROM WRITING                                           *
*****
*                               *                                                         *
*                               *                                                         *
*                               *                                                         *
*                               *                                                         *
*                               *                                                         *
*****
*                               X-TAL ADJUSTING                                           *
*****
*                               *                                                         *
*                               *                                                         *
*                               *                                                         *
*                               *                                                         *
*****
*                               RESULT                                                     *
*****
*                               *                                                         *
*                               *                                                         *
*****
*  F1:ID READ   F3:ID WRITE   F5:NAT OPT   F7:CLK ADJ   F9:RF TEST   ALT+X:EXIT   *
*****
```

1. F1 : ID READ (Automatically read the test set's ID.)
2. F3 : ID WRITE (You can write some ID which you want to write.)
3. F5 : NAT OPT (You can write national default data which was chosen in NATION SELECTION.)
4. F7 : CLK ADJ (You can adjust the clock of test set by UP/DOWN or LEFT/RIGHT key in the CLI ADJ mode.)
5. F9 : RF TEST (You can adjust the VCO level of test set in RF TEST mode.)
6. ALT +X : EXIT.

